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EVALUATION AND DEVELOPMENT OF SUPERIOR FEED PEAS USING CHEMICAL, NIR AND NET ENERGY EVALUATION

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Evaluation And Development Of Superior Feed Peas Using Chemical, NIR And Net Energy Evaluation
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Submitted by

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Summary/Abstract: The use of NIR to predict nutrient content and as a basis for pea plant breeder selection has proven to be relatively quick and one of substantial cost saving. The NIR unit was used to predict values on over 8290 pea samples arising from breeder lines in the 2004, 2005, 2006 and 2007 crop years. Samples from F_4, F_5 and F_6 generations were analyzed for moisture, crude protein, ADF, NDF, EE, ash and starch with the nutritional data used for selection criteria along with yield and agronomics. Yield and agronomics remained as the prime selection criteria, with a minimum nutritional level set for crude protein and starch as the base. To support development of improved NIR calibrations for peas over 330 samples were analyzed by Wet chemistry and included in the NIR cumulative calibration set. In each of the years 2004, 2005 and 2006, nine popular field pea varieties were grown with sufficient quantity to provide material for net energy determination by swine. These increased lines of pea materials from each of the years had been sent to Edmonton for feeding trials with Dr. R. Zilstra to determine net energies with swine. The Wet chemistry data has been added to the crops livestock database making the total to over 800 samples resident in that database.

The results clearly show the use of NIR to rapidly evaluate the composition of pea samples for breeding and selection increases efficiency, saving both time and money. There is however a need to continually update and increase the accuracy of the NIR prediction equations using wet chemistry as a basis. The amount of data accumulated is substantially increased with NIR and it goes beyond that for breeding and selection purposes but also to support value added processing of peas for other than feed or food.

The NE determination provides valuable data as to the digestibility of the various fractions which in turn can be used along with composition to predict the NE of that particular sample. Protein digestibility ranged from 70.8 to 80.9% with an average of 75.89% for the 27 samples and organic matter digestibility had a range of 82.7 to 91.0% with an average of 87.31% for the same

27 samples. The net energies determined for the 27 samples were an average of 10.87 MJ/KG of DM. The chemical composition of peas can be reasonably predicted with NIR, but actual digestibility of certain fractions yet cannot be done because of insufficient sample numbers. For future, work should be done to measure NE of more pea samples so either an average digestibility of components can be used or digestibility be measured directly by NIR.

Background and project description: To provide a basis and a program model for the development and rapid evaluation of feed peas, to guide breeding programs, enhance pea use in livestock diets and other uses such as value added processing. The development of field peas as a crop must move beyond a strict commodity basis. To do this a rapid and economic basis must be developed to describe the feed and chemical characteristics of large populations of field peas. In previous studies with field peas funded by Saskatchewan Pulse Growers and the Agriculture Development Fund some 500 pea samples of known origin were analyzed by Wet chemistry and used to calibrate a NIR unit. It was concluded after 4 years that sufficient variability existed in peas for selection and that NIR could be used to screen pea breeding lines for selection. The accuracy of the NIR for feed formulation use and commerce was less than desirable for energy related constituents but was accurate for protein.

This project continued this work of using the NIR unit for selections in pea breeding while being enhanced and supported to increase calibration accuracy, by wet chemistry analysis on limited numbers of samples. The project was also expanded to increase predictability of the NIR unit for certain chemical constituents related to energy which could then be used to predict the net energy content of peas with swine. The base information from the NE feeding trials with swine will generate significant nutrient digestibility values for peas to further support and demonstrate the value of peas as a feed source.

Methods, approach and activity results:

Pea breeder samples grown in 2004, 2005, 2006, and 2007 crop years were analyzed by NIR for crude protein, acid detergent fibre, neutral detergent fibre, ash, ether extract and starch. The pea breeding program generates a large number of samples through succeeding generations, typically the F4, F5, F6, F7 and F9 generation lines. The results of these determinations were reported in

the progress reports and that for 2007 are given in Attachment A along with the work plan for the NIR analysis. This approach that was taken for the 2007 samples of using the NIR to screen potential breeding lines was also used for the samples arising from 2004, 2005, and 2006 crop years. A total of more than 8292 pea samples of pea seed have been analyzed by NIR that came from the 2004 to 2007 crop years. In addition whole seed samples were compared to predictions on ground seed to increase the validity of the predictions. Attachment B is a poster presentation that describes this comparison work and it's conclusion that; the accuracy of equations for whole seed in particular will continue to be improved so that grinding of samples can eventually be eliminated.

G. Argonosa and T. Warkentin led this portion of the NIR work and the selection of promising pea lines. The NIR results on constituents formed a portion of the selection criteria with agronomics of the test lines being of priority. The results of this approach has led to an increased level of confidence in pea selection particularly as it pertains to identifying unique genetic material and it's retention for specific uses.

To support the continued increase in accuracy of prediction by the NIR instrument, wet chemistry analysis was done on the F6 generation or PEYT lines and added to the calibration equations. The F6 generation is considered pivotal and over 330 samples equally distributed over the four years were selected for wet chemistry to increase validity of the NIR predictions. Each year amongst these were, approximately 20 identified outliers which would broaden the equations. The result has been a continued improvement of the calibration equations and level of confidence.

The use of NIR to predict other feed parameters such as net energy was investigated as part of the project. Nine pea varieties were grown in the 2004 crop year by the CDC to increase quantity of peas for net energy determinations. These peas were sent to Edmonton for net energy determinations in swine by R. Zilstra of the University of Alberta. These feeding trials have been completed and are reported in the results section. The same nine varieties were grown in the 2005 and 2006 by the CDC for increase and sent to Dr. R. Zilstra. The feeding trials have been completed with the results given below in the next section. The results of the net energy determinations can be used to calibrate an NIR instrument to predict net energy directly and or from constituents depending upon instrument response.

Results

The capability of the NIR to evaluate the 2004, 2005, 2006, and 2007 crop years has clearly shown time and cost savings in selection of breeder lines. In total over 8200 pea samples were analyzed by NIR from the pea regional tests. These determinations were made for moisture, crude protein ADF, NDF, EE, ash and starch. To conduct the analysis by wet chemistry would not only be tedious, but costly. An estimated cost saving of over 500,000 dollars for NIR analysis compared to wet chemistry has been the result. The accuracy and confidence continues to grow with the use of NIR to predict these parameters. A poster and paper led by G. Argonosa on the use of NIR shows much of the progress made and is attachment B. These results clearly show that protein and now other constituents such as starch, NDF and ADF can be predicted with reasonable accuracy. The accuracy has improved as new wet chemistry data is added. While accuracy of prediction may lack for some constituents, one cannot overlook the reasonable accuracy that the two largest components in peas are predicted; protein and starch. These also represent the value of peas in feeding as a protein and energy source. A summary of the NIR results on whole seed and ground samples is given below and includes the calibration sets up to and including the 2006 crop year. This summary of the NIR results shows that the equations developed are acceptable for a broader range of constituents and can be of significant value to industry.

Revised Summary of NIR equations (March 5 2007)

					Whole Seed		
Constituent	**Eq**	**N**	**RSQ**	**SECV**	**Eq ID**	**Year(s)**	**1-VR**
CP	1.2	100	0.9639	0.5992	pw127s	01 02 04	0.9319
Ash	2.1	28	0.9608	0.1166	pw302s	99 02	0.9118
EE	3.2	58	0.9226	0.1576	pw108s	99 03	0.5568
ADF	4.2	33	0.9697	0.2234	pw368s	03 04	0.8877
NDF	5.1	115	0.6699	0.2251	pw361s	01 02 04 05	0.4563
Starch	6.1	63	0.9553	1.4837	pw119s	02 03 04	0.8444

					Ground Sample		
Constituent	**Eq**	**N**	**RSQ**	**SECV**	**Eq ID**	**Year(s)**	**1-VR**
CP	1.2	93	0.9857	0.5042	pg102s	00, 01	0.9365
Ash	2.2	48	0.9773	0.1180	pg115s	01, 04	0.8178
EE	3.1	86	0.6900	0.1238	pg209s	00, 01, 05	0.6900
ADF	4.2	69	0.8630	0.5575	pg123s	00, 02, 03	0.7941
NDF	5.2	30	0.7270	0.9647	pg241s	04, 05	0.4742
Starch	6.2	20	0.9801	1.2194	pg117s	02, 03	0.8203

The results indicate that:

1) Adding each years wet chemistry data has strengthened the calibration for those constituents such as NDF (whole seed), as well as EE and NDF (ground seed)

2) The whole seed equations continue to improve negating the grinding of samples.

3) In the future, focus will be on whole seed NIR for pea breeding purposes, thereby saving half the work and time (no grinding needed).

The use of wet chemistry to guide and support the NIR determinations and breeder selection by Tom Warkentin provides not only a level of confidence, but also an invaluable database of feeds. For this project approximately 70 samples per year are chosen for wet chemistry and used to calibrate further, the NIR unit to increase accuracy. The NIR unit helps to identify another 20 to 25 outliers which are considered unique in their spectral analysis.

The pea wet chemistry results, 2004 through to 2007 were added to an overall research database which now contains over 820 pea samples. Table 4 gives the nutrient content summary of all these samples while Tables 5 and table 6 list those samples for 2005 and 2006, which had greater than 24 % crude protein and 46 % starch on a dry matter basis and illustrates the value such data could have.

This capability to sort and identify samples with superior characteristics for any number of applications is invaluable. In September 2006 a delegation from Norway and the Netherlands were hosted by Racz, Warkentin and Arganosa. The delegation was interested in pea processing using Canadian peas. Access to the pea data and presentations made on the breeding program were well received giving the delegation an appreciation of the scope in our pea populations and the ability to target lines or varieties to a specific purpose. This also allows I.P. contract production which was of importance to this group. In April 2007 a similar situation was facilitated for a group from chile.

The net energy determinations were completed for nine pea varieties from each of the 2004, 2005, and 2006 crop years making a total of 27 separate NE determinations with swine. . This portion of the project was done by Dr. R. Zilstra at the University of Alberta. The following is the report on the 2004, 2005 and 2006 pea samples as given by R. Zilstra with each year as a stand alone result.

NE Determinations

The NE content of feed samples is predicted in Western Europe via analyses of macronutrients (starch, fibre, protein, and fat) and analyses of the digestible content of these nutrients, or a combination thereof. These data are then used in equations to predict the NE content of the feed, which have been established using actual NE measurements in swine. Data acquired on Canadian feed peas for these macronutrients then can be used to establish a prediction of the NE content.

In all three feeding trials, pea samples were ground and fed to grower pigs together with a mixture of vitamins, minerals, and a marker for digestibility and feces were collected. Collected diet and feces samples were analyzed for moisture, protein, ether extract, and digestibility marker. In addition, the pea samples were analyzed for these factors plus starch and sugars.

NE 2004 Pea Samples

The chemical characteristics of the field pea samples form the basis for the NE measurements. These results of these analyses (Table 1.1) suggest that among the nine analyzed pea samples, starch ranged from 46.8 to 49.0% and protein ranged from 23.1 to 26.0%.

Table1.1 Chemical composition of the pea samples (% DM) (year1)

Cultivar	Moisture	CP	Ash	EE	Starch	Sugar
Eclipse	11.56	23.16	2.71	0.95	48.99	2.57
CDC Minuet	13.00	23.38	2.68	1.68	48.62	3.95
CDC Mozart	13.08	23.78	2.66	1.43	48.99	2.77
Alfetta	13.67	23.33	2.57	1.32	48.49	2.85
SW Salute	13.34	24.32	2.65	1.25	49.09	3.39
DS Admiral	12.04	24.75	2.67	1.26	46.82	3.05
CDC Striker	12.89	25.98	2.58	1.10	47.24	2.74
CDC Montero	12.78	23.29	2.71	1.57	48.48	3.32
Nitouche	12.17	26.20	2.64	1.23	47.60	2.99

The collected data for the diets and feces were used to calculate the digestibility coefficients for the specific macronutrients protein (CP and fat (EE) and for organic matter (OM). The results indicate that protein digestibility ranged from 70.8 to 78.5%, fat digestibility from 40.0 to 58.6%, and organic matter digestibility from 85.1 to 89.6% (Table 2).

Table 2.1 Digestibility coefficients for nutrients (year1)

Cultivar	CP	EE	OM
Eclipse	73.66	42.80	86.70
CDC Minuet	77.67	42.85	87.76
CDC Mozart	78.25	58.56	89.56
Alfetta	70.78	39.99	85.11
SW Salute	73.57	44.50	86.33
DS Admiral	74.76	48.14	87.14
CDC Striker	75.79	53.78	86.23
CDC Montero	75.65	49.97	86.61
Nitouche	78.51	55.28	87.50

To determine the NE content, digestibility content of protein (DCP), ether extract (DEE), organic matter (DOM) and digestible residue (DRes; an estimate for fiber) were included together with total content of starch (ST) and sugars (SU). The results of this calculation indicate that the NE content for the nine pea samples ranged from 10.71 to 11.25 MJ/kg DM.

Table3.1 Digestible nutrient composition (g/kg DM) and NE content (MJ/kg DM) of the pea samples (year1)

Cultivar	DCP	DEE	ST	SU	DOM	DRes	NE[1]
Eclipse	170.6	4.1	489.9	25.7	843.5	153.3	10.84
CDC Minuet	181.6	7.2	486.2	39.5	854.1	139.6	11.07
CDC Mozart	186.1	8.4	489.9	27.7	871.8	159.7	11.25
Alfetta	165.1	5.3	484.9	28.5	829.2	145.4	10.71
SW Salute	178.9	5.6	490.9	33.9	840.4	131.2	10.91
DS Admiral	185.0	6.1	468.2	30.5	848.1	158.3	10.87
CDC Striker	196.9	5.9	472.4	27.4	840.1	137.4	10.85
CDC Montero	176.2	7.8	484.8	33.2	842.6	140.6	10.94
Nitouche	205.7	6.8	476.0	29.9	851.9	133.5	11.04

[1]The NE content was calculated from the formula: 0.0121*DCP + 0.035*DEE + 0.0143*ST + 0.0119 &* SU + 0.0086 * DRes. This formula is based on determination of starch and sugars and digestible nutrients in the grower pig model, specifically crude protein (CP), ether extract (EE), and residue (difference between organic matter and determined nutrients).

NE 2005 pea samples

These results of pea analyses from 2005 year (Table 1.2) suggest that among the nine analyzed pea samples in year 2, starch ranged from 42.5 to 48.2% and protein ranged from 22.9 to 26.2%.

Table 1.2 Chemical composition of the pea samples (% DM), year 2

Cultivar	Moisture	CP	Ash	EE	Starch	Sugar
Eclipse	11.45	23.02	2.62	1.19	46.73	3.00
CDC Minuet	11.53	23.89	2.53	1.33	45.77	3.00
CDC Mozart	11.71	23.61	2.78	1.37	45.91	3.00
Alfetta	10.64	22.88	2.54	1.01	44.82	3.00
SW Salute	9.77	23.57	2.73	1.00	44.94	3.00
DS Admiral	9.81	23.63	2.63	1.05	48.18	3.00
CDC Striker	10.81	26.17	2.71	1.09	44.66	3.00
CDC Montero	11.21	23.68	2.89	1.14	43.54	3.00
Nitouche	10.14	26.01	2.66	0.99	42.45	3.00

The collected data for the diets and feces were used to calculate the digestibility coefficients for the specific macronutrients protein (CP and fat (EE) and for organic matter (OM). The results indicate that protein digestibility ranged from 74.7 to 77.9%, fat digestibility from 41.1 to 54.5%, and organic matter digestibility from 87.2 to 88.8% (Table 2.2).

Table 2.2 Digestibility coefficients for nutrients, year 2

Cultivar	CP	EE	OM
Eclipse	74.71	45.52	87.23
CDC Minuet	75.24	47.16	87.51
CDC Mozart	77.16	49.68	88.02
Alfetta	75.57	42.69	87.70
SW Salute	76.62	52.69	88.39
DS Admiral	76.47	53.60	88.43
CDC Striker	76.56	51.07	87.11
CDC Montero	77.20	41.12	88.84
Nitouche	77.90	54.51	87.89

To determine the NE content, digestibility content of protein (DCP), ether extract (DEE), organic matter (DOM) and digestible residue (DRes; an estimate for fiber) were included together with total content of starch (ST) and sugars (SU). The results of this calculation indicate that the NE content for the nine pea samples ranged from 10.72 to 11.03 MJ/kg DM.

Table 3.2 Digestible nutrient composition (g/kg DM) and NE content (MJ/kg DM) of the pea samples (year 2)

Cultivar	DCP	DEE	ST	SU	DOM	DRes	NE[1]
Eclipse	171.9	5.4	467.3	30.0	849.5	174.8	10.81
CDC Minuet	179.7	6.3	457.7	30.0	853.0	179.2	10.84
CDC Mozart	182.1	6.8	459.1	30.0	855.7	177.6	10.89
Alfetta	172.9	4.3	448.2	30.0	854.7	199.3	10.72
SW Salute	180.6	5.3	449.4	30.0	859.8	194.6	10.83
DS Admiral	180.7	5.6	481.8	30.0	861.1	163.0	11.03
CDC Striker	200.4	5.6	446.6	30.0	847.5	165.0	10.78
CDC Montero	182.8	4.7	435.4	30.0	862.7	209.8	10.76
Nitouche	202.6	5.4	424.5	30.0	855.5	193.0	10.73

[1]The NE content was calculated from the formula: 0.0121*DCP + 0.035*DEE + 0.0143*ST + 0.0119 &* SU + 0.0086 * DRes. This formula is based on determination of starch and sugars and digestible nutrients in the grower pig model, specifically crude protein (CP), ether extract (EE), and residue (difference between organic matter and determined nutrients).

NE 2006 Samples

The initial results of these analyses (Table 1.3) suggest that among the nine analyzed pea samples in year 3, starch ranged from 45.0 to 47.9% and protein ranged from 23.1 to 26.1%.

Table 1.3 Chemical composition of the pea samples (% DM), initial data year 3

Cultivar	Moisture	CP	Ash	EE	Starch	Sugar
Eclipse	11.51	23.09	2.66	1.07	47.86	2.79
CDC Minuet	12.26	23.63	2.60	1.51	47.20	3.48
CDC Mozart	12.40	23.69	2.72	1.40	47.45	2.89
Alfetta	12.15	23.10	2.56	1.16	46.65	2.93
SW Salute	11.56	23.94	2.69	1.13	47.01	3.20
DS Admiral	10.92	24.19	2.65	1.15	47.50	3.03
CDC Striker	11.85	26.07	2.65	1.09	45.95	2.87
CDC Montero	11.99	23.49	2.80	1.36	46.01	3.16
Nitouche	11.15	26.11	2.65	1.11	45.02	3.00

The collected data for the diets and feces were used to calculate the digestibility coefficients for the specific macronutrients protein (CP and fat (EE) and for organic matter (OM). The results indicate that protein digestibility ranged from 68.3 to 80.9%, fat digestibility from 9.1 to 55.2%, and organic matter digestibility from 82.7 to 91.0% (Table 2.3).

Table 2.3 Digestibility coefficients for nutrients, year 3

Cultivar	CP	EE	OM
Eclipse	80.86	55.17	91.00
CDC Minuet	76.13	34.36	86.44
CDC Mozart	72.90	27.59	85.92
Alfetta	74.45	34.31	86.37
SW Salute	79.60	28.64	87.94
DS Admiral	78.67	35.81	87.89
CDC Striker	68.34	9.12	82.68
CDC Montero	75.48	35.14	88.31
Nitouche	75.78	35.89	86.84

To determine the NE content, digestibility content of protein (DCP), ether extract (DEE), organic matter (DOM) and digestible residue (DRes; an estimate for fiber) were included together with total content of starch (ST) and sugars (SU). The initial results of this calculation indicate that the NE content for the nine pea samples ranged from 10.29 to 11.25 MJ/kg DM.

Table 3.3 Digestible nutrient composition (g/kg DM) and NE content (MJ/kg DM) of the pea samples, initial data year 3

Cultivar	DCP	DEE	ST	SU	DOM	DRes	NE[1]
Eclipse	186.7	5.9	478.6	27.9	885.8	186.8	11.25
CDC Minuet	179.9	5.2	472.0	34.8	841.9	150.1	10.81
CDC Mozart	172.7	3.9	474.5	28.9	835.9	155.9	10.70
Alfetta	172.0	4.0	466.5	29.3	841.6	169.8	10.70
SW Salute	190.6	3.2	470.1	32.0	855.8	159.9	10.90
DS Admiral	190.3	4.1	475.0	30.3	855.6	155.9	10.94
CDC Striker	178.2	1.0	459.5	28.7	805.0	137.6	10.29
CDC Montero	177.3	4.8	460.1	31.6	858.4	184.7	10.86
Nitouche	197.8	4.0	450.2	30.0	845.4	163.4	10.73

[1]The NE content was calculated from the formula: 0.0121*DCP + 0.035*DEE + 0.0143*ST + 0.0119 &* SU + 0.0086 * DRes. This formula is based on determination of starch and sugars and digestible nutrients in the grower pig model, specifically crude protein (CP), ether extract (EE), and residue (difference between organic matter and determined nutrients).

An additional observation is that the data presented by the NE determinations provides invaluable information on the digestibility of the various constituents. The most striking observation in year 1 was that Nitouche which is relatively high in protein and starch content compared to other peas it also has one of the highest net energies. Nitouche is different from the others because of high digestible organic matter content exceeded only by Mozart and Minuet. Clearly based on these results Nitouche because of higher protein would be worth more as a feed than Minuet and only a large shift in the relative costs of energy from other feeds could make Mozart equal in value. Similar observations could be made in other years with certain pea samples. Because of the variability in composition from year to year of the same variety, composition of the individual pea sample must only be considered for accurate evaluation.

Conclusions and Recommendations:

The use of NIR to rapidly evaluate composition of pea samples for breeding and selection has been conclusively shown to be beneficial, saving both time and money. There is however a need to continually update and increase the accuracy of the NIR prediction equations using wet chemistry for improvement and as a result, it requires continued support to make progress. The data accumulated is substantially increased with NIR and goes beyond that for breeding and selection but also to support value added processing of peas for other than feed or food purposes.

The NE determination provides valuable data as to the digestibility of the various fractions which in turn can be used along with composition to predict the NE of that particular sample. Protein digestibility ranged from 70.8 to 80.9% with an average of 75.89% for the 27 samples and organic matter digestibility had a range of 82.7 to 91.0% with an average of 87.31% for the 27 samples. The net energies determined for the 27 samples were an average of 10.87 MJ/KG of DM. The key to rapidly evaluate peas for NE has been partly eluded to as chemical composition can be reasonably predicted with NIR, but actual digestibility of certain fractions yet cannot be done because of insufficient sample numbers. For future, work should be done to measure NE of more pea samples so either an average digestibility of components can be used or digestibility be measured directly by NIR.

Acknowledgements

The Department of Agriculture, Agriculture Development Fund and Saskatchewan Pulse Crop Development Board both were recognized in all presentations using these data as well as any description of the project in a public forum. The project group sincerely expresses it's appreciation for the support of both funding sources.

Administrative and Other Aspects: Progress and results from this project have been presented at several industry and other related meetings by T. Warkentin G. Arganosa and V. Racz. The data and results have been of benefit in the application of value added processing technologies and the creation of new products and markets in the domestic market and for international groups.

Personnel on project

Crop Development Centre: T. Warkentin, G. Arganosa, Field and laboratory personnel
Department of Animal and Poultry Sci.: V. Racz and laboratory assistance (P. Kish)
University of Alberta, Edmonton: Ruurd Zilstra : Feed researcher

An expense statement will follow

Attachment A: Work plan of NIR analysis 2007 year

NIR EVALUATIONS FALL 2007

2007 CDC Field pea trials					Total samples		Total plots		Test by NIR	
Trial	Entries	Reps	Plots	Locations	in field	Entries	Reps	Plots	Locations	
PRVT	27	3	81	18	1458	27	1	27	6	162
Co-op A	28	3	84	2	168	28	1	28	2	56
Co-op B	28	3	84	2	168	28	1	28	2	56
PEYT01	36	2	72	8	576	36	1	36	3	108
PEYT02	36	2	72	8	576	36	1	36	3	108
PEYT03	36	2	72	8	576	36	1	36	3	108
PSEYT	20	2	40	2	80	20	1	20	2	40
MFEYT	36	2	72	5	360	36	1	36	3	108
PAYT01	36	2	72	5	360	36	1	36	2	72
PAYT02	36	2	72	5	360	36	1	36	2	72
PAYT03	36	2	72	5	360	36	1	36	2	72
PAYT04	36	2	72	5	360	36	1	36	2	72
PAYT05	36	2	72	5	360	36	1	36	2	72
PAYT06	36	2	72	5	360	36	1	36	2	72
PAYT07	36	2	72	5	360	36	1	36	2	72
PAYT08	36	2	72	5	360	36	1	36	2	72
PAYT09	36	2	72	5	360	36	1	36	2	72
PAYT10	36	2	72	5	360	36	1	36	2	72
PAYT11	36	2	72	5	360	36	1	36	2	72
PAYT12	36	2	72	5	360	36	1	36	2	72
PAYT13	36	2	72	5	360	36	1	36	2	72

PAYT14	36	2	72	5	360	36	1	36	2	72
PAYT15	36	2	72	5	360	36	1	36	2	72
PAYT16	36	2	72	5	360	36	1	36	2	72
PAYT17	36	2	72	5	360	36	1	36	2	72
PAYT18	36	2	72	5	360	36	1	36	2	72
PAYT19	18	2	36	5	180	18	1	18	2	36
MFAYT01	36	2	72	5	360	36	1	36	2	72
MFAYT02	18	2	36	5	180	18	1	18	2	36
Grand-total					11162					2186

ACTION PLAN: The 2186 samples indicated above, were assessed by NIR in fall 2007

Dr. Arganosa used the scans to predict the proximate analyses

Notes

PRVT=Pea Regional Variety Trial (typically F9 or later generation varieties)

Pea Co-op Test (typically F7 or later generation lines)

PEYT=Pea Elite Yield Trial (typically F6 generation lines)

PAYT=Pea Advanced Yield Trial (typically F5 generation lines)

LOCATIONS EVALUATED IN 2007

FOR PRVT: SUTHERLAND, ROSTHERN, SWIFT CURRENT, ROULEAU, ELROSE, MEATH PARK

FOR PEA CO-OPS: SUTHERLAND, OUTLOOK

FOR PEYT'S AND MFEYT: SUTHERLAND, ROSTHERN, ROULEAU

FOR PAYT'S AND MFAYT'S: SUTHERLAND, ROSTHERN

FOR PSEYT: SUTHERLAND AND SPG

The individual predictions and values are given on an attached xls spreadsheet titled "Predictions Dec 4, 2007 xls" of the 2186 samples done on the 2007 crop year.

Attachment B:

Prediction of six constituents in field pea seeds using near-infrared spectroscopy

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INTRODUCTION

The measurement of numerous chemical constituents in field peas could be both a time consuming and expensive exercise. The availability of an instrument, such as a near infrared spectrophotometer (NIR), in a laboratory gives us an opportunity to develop equations that would predict these constituents. Other researchers have used NIR analysis to predict protein in peas from their germplasm collection protein (Jung et al., 1998), and protein, starch and lipid in pea flour (Davies and Wright, 1984; Davis et al., 1985). It has also been used in various pulse breeding programmes around the world (Williams et al., 1978).

The objective of this study was to develop equations to predict crude protein (CP), acid-detergent fibre (ADF), ash, neutral-detergent fibre (NDF), ether extract (EE) and starch in both whole seed and ground samples of field pea using near-infrared spectroscopy.

MATERIALS AND METHODS

Field Pea Samples

Several hundred samples, primarily derived from the CDC pulse crop breeding program, grown in various locations in Saskatchewan from 1999 to 2004 were used in this study. Wet chemistry values of six constituents, namely, crude protein, acid-detergent fibre, ash, neutral detergent fibre, ether extract and starch, were measured following standard protocol.

Spectra Collection

Whole seeds and ground samples were brought to the Crop Development Centre, Department of Plant Sciences, University of Saskatchewan, Saskatoon, where they were equilibrated at room temperature (25°C) for at least 48 hours prior to NIR analysis. A FOSS NIR System 6500 Near Infrared Spectrophotometer (Foss Tecator, Sweden) was used to collect spectra from the field pea samples.

Sample Selection

Each spectrum was transformed with a (1,4,4) derivative where the first number in parenthesis is the order of the derivative, the second number the gap and the third the smooth. For each combination of spectra, the CENTER and SELECT programs (WinISI, Foss North America, Eden Prairie, MN) were used to generate the calibration and validation sets.

RESULTS AND DISCUSSION

The equations developed for both whole seed and ground samples are shown in Table 1. Each equation for whole seed and ground seed sample for each constituent was used to predict the validation set. The correlation of the laboratory values with the predicted values for crude protein, ash, starch and acid-detergent fibre are also shown. The most robust equations, both for whole seed and ground samples, are those for crude protein, followed by those for ash and starch. These equations are now being utilized by the pea breeding program to select lines with improved potential in the feed industry. The equations for acid detergent fibre (ADF), ether extract (EE) and neutral detergent fibre (NDF) could possibly be improved by the addition of approximately 100 samples from each of 2005 trials, 2006 trials and 2007 trials that are to be assessed by wet chemistry and NIR, and it is expected that the robustness of these equations will be enhanced.

Table 1. Equations developed for whole seed and ground seed samples of field pea to estimate six constituents (crude protein, ADF, ash, NDF, ether extract and starch).

Constituent	Year(s)	N	RSQ	SECV	1-VR	R*
Whole Seed						
Crude Protein	01, 02, 04	90	0.9541	0.6836	0.9041	0.932
ADF	99, 03	57	0.8301	0.4149	0.7735	0.820
Ash	00, 02, 04	119	0.9250	0.1649	0.8186	0.854
NDF	99	54	0.4288	1.1047	0.2828	n.a.
Ether Extract	99, 03	58	0.9226	0.1576	0.5568	n.a.
Starch	02, 03, 04	63	0.9553	1.4837	0.8444	0.804
Ground Sample						
Crude Protein	00, 01	93	0.9857	0.5042	0.9365	0.952
ADF	00, 02, 03	69	0.8630	0.5575	0.7941	0.853
Ash	01, 04	48	0.9773	0.1180	0.8178	0.789
NDF	01, 04	50	0.4933	1.0030	0.4465	n.a.
Ether Extract	00, 02, 03, 04	95	0.8164	0.1312	0.5085	n.a.
Starch	02, 03	20	0.9801	1.2194	0.8203	0.851

* Correlation between laboratory values and predicted values

CONCLUSIONS

The accuracy of our equations, particularly for whole seed, in predicting the six constituents will continually be improved by the addition of more samples consisting of different varieties grown at various locations and containing a wide range of values.

Our future goals include: eliminating the need for grinding the samples, increasing the reliability of the equations to improve selection of breeding lines with relatively high protein and starch contents and transferring equations to the feed pea industry.

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Table 2: Wet chemistry results 2005 sample year

#	Acid Detergent Fibre (DM)	Ash (DM)	Crude Protein (DM)	Ether Extract (DM)	Neutral Detergent Fibre (DM)	Common Name	Starch (DM)	Variety	Year Harvested
1	10.13	2.88	28.7	1.09	17.94	Peas	38.83	40-10	2005
2	8.95	3.08	26.84	1.15	17.44	Peas	41.91	40-10	2005
3	8.26	3.07	25.99	0.9	14.46	Peas	44.66	Tudor	2005
4	7.76	3.59	21.19	1.08	17.61	Peas	49.72	1784	2005
5	8.02	3.59	24.15	0.99	15.88	Peas	45.57	2010-7	2005
6	7.79	3.47	24.07	0.93	16.23	Peas	46.05	2122-205	2005
7	12.74	3.46	24.6	1.31	14.21	Peas	44.17	1503S-3	2005
8	9.24	3.63	24.88	0.79	13.3	Peas	45.94	Cutlass	2005
9	8.86	3.11	24.49	0.95	13.42	Peas	45.87	CDC Sage	2005
10	9.06	3.5	25.82	0.94	15.08	Peas	44.58	1314-4	2005
11	8	3.42	24.19	0.65	15.42	Peas	48.54	SW Marquee	2005
12	8.29	3.26	23.24	0.89	17.81	Peas	47.12	Vortex	2005
13	8.01	3.96	25.35	0.74	13.49	Peas	44.89	ceb 4158	2005
14	7.79	3.49	24.6	0.51	15.33	Peas	48.7	Tudoi	2005
15	7.98	2.84	24.6	0.92	20.46	Peas	44.88	CDC Mozart	2005
16	7.67	2.73	24.11	1.08	20.41	Peas	47.03	Alfetta	2005
17	8.5	2.75	25.25	0.81	19.05	Peas	46.03	Eclipse	2005
18	8.23	2.83	25.09	0.79	19.15	Peas	43.65	1300T-3	2005
19	8.48	2.65	25.11	0.8	23.14	Peas	45.77	1329M-12	2005
20	8.05	3.03	25.78	0.73	19.02	Peas	43.16	1474S-7	2005
21	8.53	2.84	25.14	0.97	20	Peas	44.65	1215M-33	2005
22	8.76	2.87	26.11	1.12	21.79	Peas	40.9	1694-2	2005
23	7.29	2.86	24.12	1.16	21.4	Peas	44.68	1677-13	2005
24	7.72	2.88	23.02	1.19	18.65	Peas	33.74	1816-2	2005
25	7.7	2.89	24.37	1.27	17.06	Peas	33.08	1674-13	2005
26	8.54	2.95	25.53	1.21	19.5	Peas	32.36	1760-8	2005
27	8.43	2.69	25.73	1.08	16.94	Peas	45.63	1760-15	2005
28	8.18	2.86	26.11	1.24	19.11	Peas	45.86	1678-3	2005
29	9.96	2.61	25.15	1.11	17.16	Peas	45.96	1674-10	2005
30	8.23	2.67	26.94	1.07	16.15	Peas	49.84	1760-12	2005
31	8.82	2.73	22.72	0.94	17.22	Peas	44.24	1677-16	2005
32	9.43	2.68	26.05	1.3	17.5	Peas	45.36	1763-22	2005
33	7.19	2.76	22.84	1.05	15.33	Peas	46.67	1657-5	2005
34	8.52	2.72	25.6	0.98	20.13	Peas	45.81	1659-13	2005
35	9.72	3.35	22.47	1.13	17.48	Peas	46.34	1763-26	2005
36	9.34	3.32	23.26	1.27	17.33	Peas	48.35	1749-8	2005
37	8.8	3.21	23.12	0.8	18.14	Peas	47.97	1763-6	2005
38	9.79	2.98	22.81	0.81	17.42	Peas	48.33	1734-5	2005
39	10.34	3.11	23.49	0.84	17.27	Peas	47.7	1658-9	2005
40	8.4	3.44	22.91	0.82	17.68	Peas	43.32	1681-5	2005
41	11.26	3.09	22.33	0.8	17.7	Peas	43.32	1658-11	2005
42	9.14	3.23	25.03	0.87	17.56	Peas	45.82	1759-30	2005
43	10.38	3.23	22.07	1.11	17.18	Peas	46.13	1544-8	2005
44	9.02	3.34	20.63	1.29	16.55	Peas	46.56	1675-1	2005
45	7.83	2.85	24.6	1.37	18.64	Peas	45.12	1846-1	2005
46	8.19	3.1	25.39	1.25	15.32	Peas	49.03	1759-6	2005
47	8.21	3.43	24.84	0.79	18.79	Peas	46.11	1690-16	2005
48	8.56	3.4	22.63	1.24	17.28	Peas	44.22	1752-17	2005
49	7.96	3.36	22.33	1.27	19.78	Peas	42.46	1758-8	2005

50	9.15	3.26	22.8	1.24	17.93	Peas	43.16	1658-7	2005
51	8.54	3.27	23.5	1.49	17.08	Peas	45.75	CDC Mozart	2005
52	9.03	2.6	24.81	1.33	16.72	Peas	42.36	CDC Striker	2005
53	8.43	3.35	22.44	0.64	16.28	Peas	37.87	CDC Acer	2005
54	8.9	3.23	23.28	1.18	16.78	Peas	30.76	CDC Dundu	2005
55	8.09	3.55	23.07	1.21	16.22	Peas	40.4	617-20	2005
56	10.38	3.55	23.93	1.31	19.19	Peas	31.73	1816-4	2005
57	7.55	3.27	23.31	1.01	15.44	Peas	43.83	1819-2	2005
58	7.86	3.12	23.25	0.88	15.47	Peas	31.48	1816	2005
59	9.54	2.8	23.07	0.98	14.98	Peas	50.61	1687-10	2005
60	8.82	2.26	22.52	1.01	17	Peas	51.47	1719-2	2005
61	8.43	2.95	24.24	0.92	14.35	Peas	31.75	1687-6	2005
62	8.99	2.89	22.14	1.04	20.65	Peas	49.27	1767-23	2005
63	7.87	2.96	24.02	0.86	14.6	Peas	44.22	1770-12	2005
64	7.21	2.76	21.71	1.07	16.29	Peas	41.27	1767-1	2005
65	8.34	2.67	24.77	0.83	17.68	Peas	40.54	1719-4	2005
66	7.43	2.06	24.98	0.92	16.43	Peas	45.69	1587-9	2005
67	8.44	1.84	21.51	1.03	19.13	Peas	44.68	1770-8	2005
68	8.17	1.99	22.81	1.06	18.63	Peas	41.38	1719-21	2005
69	8.49	2.64	21.62	1.22	19	Peas	39.7	1719-24	2005
70	8.41	2.81	25.35	1.11	19.6	Peas	40.27	1767-18	2005
71	8.65	2.98	25.47	1.31	21.3	Peas	40.64	1720-9	2005
72	9.9	2.83	24.8	0.99	21.51	Peas	40.38	1767-24	2005
73	7.9	2.96	22.82	0.84	20.24	Peas	39.49	1770-3	2005
74	8.04	2.73	23.41	0.91	19.59	Peas	43.91	1717-22	2005
75	7.38	3.07	23	1.06	16.72	Peas	33.05	1648-1	2005
76	8.75	2.89	22.68	0.96	18.46	Peas	32.89	1682-3	2005
77	7.81	2.69	22.44	0.96	19.82	Peas	33.84	1682-5	2005
78	7.94	2.9	21.86	1.47	15.51	Peas	34.11	1717-18	2005
79	7.67	2.63	24.71	1.02	14.86	Peas	44.24	1774-2	2005
80	8.12	2.56	23.98	1.24	16.79	Peas	44.02	1717-34	2005
81	8.26	2.72	25.15	0.89	15.03	Peas	42.45	1768-6	2005
82	9.46	2.57	25.17	1.01	17.14	Peas	43.36	1812-5	2005
83	9.16	2.65	23.62	1.12	20.13	Peas	44.96	1764-10	2005
84	8.5	3.07	24.57	0.88	19.04	Peas	43.53	1586-1	2005
85	8	2.78	23.72	0.93	18.4	Peas	46.85	1603-7	2005
86	7.64	2.98	24.33	0.91	18.13	Peas	43.42	1603-1	2005
MIN	7.19	1.84	20.63	0.51	13.3		30.76		2005
MAX	12.74	3.96	28.7	1.49	23.14		51.47		2005
AVG	8.573255	2.984069	24.02616	1.026046	17.59337		43.20884		2005
SUM	737.3	256.63	2066.25	88.24	1513.03		3715.96		172430

Table 3: Wet chemistry analysis 2006 year

#	Acid Detergent Fibre (DM)	Ash (DM)	Crude Protein (DM)	Ether Extract (DM)	Neutral Detergent Fibre (DM)	Common Name	Starch (DM)	Variety	Year Harvested
1	7.98	2.96	24.6	0.92	20.46	Peas	39.59	CDC Mozart	2006
2	7.67	2.72	24.11	1.08	20.41	Peas	43.99	Alfetta	2006
3	8.5	2.49	25.25	0.81	19.05	Peas	41.83	Eclipse	2006
4	8.23	2.64	25.09	0.79	19.15	Peas	40.35	Cutlass	2006
5	8.48	2.67	25.11	0.8	23.14	Peas	39.64	1329M-12	2006
6	8.05	2.38	25.78	0.73	19.02	Peas	38.87	1760-15	2006
7	8.53	2.77	25.14	0.97	20	Peas	45.94	1758-8	2006
8	8.76	2.56	26.11	1.12	21.79	Peas	47.27	1677-16	2006
9	7.29	2.54	24.12	1.16	21.4	Peas	49.43	1763-26	2006
10	7.72	2.49	23.02	1.19	18.65	Peas	52.64	1760-12	2006
11	7.7	2.43	24.37	1.27	17.06	Peas	50.77	1752-17	2006
12	8.54	2.32	25.53	1.21	19.5	Peas	51.77	1675-1	2006
13	8.43	2.81	25.73	1.08	16.94	Peas	50.06	1300T-3	2006
14	8.18	2.72	26.11	1.24	19.11	Peas	48.75	1658-9	2006
15	9.96	2.8	25.15	1.11	17.16	Peas	52.99	1674-13	2006
16	8.23	2.1	26.94	1.07	16.15	Peas	51.16	2105-13	2006
17	8.82	3.09	22.72	0.94	17.22	Peas	49.2	2041-12	2006
18	9.43	2.81	26.05	1.3	17.5	Peas	49.22	1910-7	2006
19	7.19	2.1	22.84	1.05	15.33	Peas	49.51	2105-28	2006
20	8.52	2.54	25.6	0.98	20.13	Peas	47.12	2105-14	2006
21	9.72	4.1	22.47	1.13	17.48	Peas	50.16	2040-10	2006
22	9.34	3.72	23.26	1.27	17.33	Peas	44.33	1848-6	2006
23	8.8	2.04	23.12	0.8	18.14	Peas	46.75	2041-14	2006
24	9.79	2.07	22.81	0.81	17.42	Peas	46.55	2005-14	2006
25	10.34	2.63	23.49	0.84	17.27	Peas	46.18	1914-22	2006
26	8.4	2.46	22.91	0.82	17.68	Peas	47.5	1914-11	2006
27	11.26	2.23	22.33	0.8	17.7	Peas	47.26	1899-12	2006
28	9.14	1.95	25.03	0.87	17.56	Peas	49.19	1949-16	2006
29	10.38	3.96	22.07	1.11	17.18	Peas	47.5	1933-5	2006
30	9.02	3.6	20.63	1.29	16.55	Peas	48.14	1948-9	2006
31	7.83	1.85	24.6	1.37	18.64	Peas	47.12	1969-3	2006
32	8.19	3.44	25.39	1.25	15.32	Peas	49.07	1850-1	2006
33	8.21	2.89	24.84	0.79	18.79	Peas	49.06	1997-2	2006
34	8.56	1.8	22.63	1.24	17.28	Peas	50.87	1847-6	2006
35	7.96	1.47	22.33	1.27	19.78	Peas	50.67	1997-5	2006
36	9.15	2.91	22.8	1.24	17.93	Peas	49.08	1950-4	2006
37	8.54	1.44	23.5	1.49	17.08	Peas	51.44	CDC Mozart	2006
38	9.03	3.11	24.81	1.33	16.72	Peas	50.08	Alfetta	2006
39	8.43	2.91	22.44	0.64	16.28	Peas	47.83	Eclipse	2006
40	8.9	2.66	23.28	1.18	16.78	Peas	47.99	Cutlass	2006
41	8.09	1.04	23.07	1.21	16.22	Peas	49.95	1896-13	2006
42	10.38	1.37	23.93	1.31	19.19	Peas	49.73	1951-6	2006
43	7.55	2.98	23.31	1.01	15.44	Peas	47.56	1857-9	2006
44	7.86	2.69	23.25	0.88	15.47	Peas	49.97	1863-11	2006
45	9.54	3.04	23.07	0.98	14.98	Peas	45.2	1857-7	2006
46	8.82	3.15	22.52	1.01	17	Peas	47.14	1896-17	2006
47	8.43	1.33	24.24	0.92	14.35	Peas	44.83	1861-8	2006
48	8.99	3.02	22.14	1.04	20.65	Peas	47.72	1896-8	2006

49	7.87	2.77	24.02	0.86	14.6	Peas	44.29	1858-8	2006
50	7.21	2.82	21.71	1.07	16.29	Peas	48.09	1782-3	2006
51	8.34	2.83	24.77	0.83	17.68	Peas	44.01	1894-28	2006
52	7.43	2.74	24.98	0.92	16.43	Peas	47.37	1861-16	2006
53	8.44	2.6	21.51	1.03	19.13	Peas	48.35	1782-1	2006
54	8.17	2.71	22.81	1.06	18.63	Peas	50.27	1782-5	2006
55	8.49	3.01	21.62	1.22	19	Peas	47.18	1781-2	2006
56	8.41	2.72	25.35	1.11	19.6	Peas	51.3	1782-2	2006
57	8.65	3.03	25.47	1.31	21.3	Peas	49.95	1780-5	2006
58	9.9	2.62	24.8	0.99	21.51	Peas	49.08	1781-4	2006
59	7.9	2.4	22.82	0.84	20.24	Peas	46.78	1908-14	2006
60	8.04	2.79	23.41	0.91	19.59	Peas	48.68	1897-14	2006
61	7.38	2.77	23	1.06	16.72	Peas	48.71	1895-4	2006
62	8.75	2.48	22.68	0.96	18.46	Peas	48.13	1897-3	2006
63	7.81	2.59	22.44	0.96	19.82	Peas	41.59	1897-11	2006
64	7.94	2.57	21.86	1.47	15.51	Peas	43.97	1983-2	2006
65	7.67	2.81	24.71	1.02	14.86	Peas	41.59	1908-31	2006
66	8.12	2.8	23.98	1.24	16.79	Peas	41.87	1908-10	2006
67	8.26	2.56	25.15	0.89	15.03	Peas	41.85	1897-2	2006
68	9.46	2.66	25.17	1.01	17.14	Peas	42.1	1908-28	2006
69	9.16	2.53	23.62	1.12	20.13	Peas	43.65	1785-3	2006
70	8.5	2.49	24.57	0.88	19.04	Peas	44.19	1897-10	2006
71	8	2.73	23.72	0.93	18.4	Peas	41.15	1895-34	2006
72	7.64	1.86	24.33	0.91	18.13	Peas	44.08	2034-7	2006
MIN	7.19	1.04	20.63	0.64	14.35		38.87		2006
MAX	11.26	4.1	26.94	1.49	23.14		52.99		2006
AVG	8.533333	2.606805	23.86306	1.046111	17.99181		47.04444		2006
SUM	614.4	187.69	1718.14	75.32	1295.41		3387.2		144432

Table 4: Analysis of all peas in database

Number	Acid Detergent Fibre (DM)	Ash (DM)	Crude Protein (DM)	Ether Extract (DM)	Neutral Detergent Fibre (DM)	Common Name	Starch (DM)	Variety	Year Harvested
MIN	4.99	1.04	16.39	0.51	3		30.76		1998
MAX	12.74	4.1	30.99	2.09	25.28		60.16		2006
AVG	8.01356	2.870078	24.34607	1.208874	14.83009		44.63509		2002.21
SUM	6122.36	2192.74	18600.4	923.58	11330.19		34101.21		1553715

Table 5: 2005 samples with > 24% CP and 46% starch DM basis

#	Acid Detergent Fibre (DM)	Ash (DM)	Crude Protein (DM)	Ether Extract (DM)	Neutral Detergent Fibre (DM)	Common Name	Starch (DM)	Variety	Year Harvested
1	7.79	3.47	24.07	0.93	16.23	Peas	46.05	2122-205	2005
2	8	3.42	24.19	0.65	15.42	Peas	48.54	SW Marquee	2005
3	7.79	3.49	24.6	0.51	15.33	Peas	48.7	Tudoi	2005
4	7.67	2.73	24.11	1.08	20.41	Peas	47.03	Alfetta	2005
5	8.5	2.75	25.25	0.81	19.05	Peas	46.03	Eclipse	2005
6	8.23	2.67	26.94	1.07	16.15	Peas	49.84	1760-12	2005
7	8.19	3.1	25.39	1.25	15.32	Peas	49.03	1759-6	2005
8	8.21	3.43	24.84	0.79	18.79	Peas	46.11	1690-16	2005
MIN	7.67	2.67	24.07	0.51	15.32		46.03		2005
MAX	8.5	3.49	26.94	1.25	20.41		49.84		2005
AVG	8.0475	3.1325	24.92375	0.88625	17.0875		47.66625		2005
SUM	64.38	25.06	199.39	7.09	136.7		381.33		16040

Table 6: 2006 Samples with > 24% CP and 46% starch DM basis

#	Acid Detergent Fibre (DM)	Ash (DM)	Crude Protein (DM)	Ether Extract (DM)	Neutral Detergent Fibre (DM)	Common Name	Starch (DM)	Variety	Year Harvested
1	8.76	2.56	26.11	1.12	21.79	Peas	47.27	1677-16	2006
2	7.29	2.54	24.12	1.16	21.4	Peas	49.43	1763-26	2006
3	7.7	2.43	24.37	1.27	17.06	Peas	50.77	1752-17	2006
4	8.54	2.32	25.53	1.21	19.5	Peas	51.77	1675-1	2006
5	8.43	2.81	25.73	1.08	16.94	Peas	50.06	1300T-3	2006
6	8.18	2.72	26.11	1.24	19.11	Peas	48.75	1658-9	2006
7	9.96	2.8	25.15	1.11	17.16	Peas	52.99	1674-13	2006
8	8.23	2.1	26.94	1.07	16.15	Peas	51.16	2105-13	2006
9	9.43	2.81	26.05	1.3	17.5	Peas	49.22	1910-7	2006
10	8.52	2.54	25.6	0.98	20.13	Peas	47.12	2105-14	2006
11	9.14	1.95	25.03	0.87	17.56	Peas	49.19	1949-16	2006
12	7.83	1.85	24.6	1.37	18.64	Peas	47.12	1969-3	2006
13	8.19	3.44	25.39	1.25	15.32	Peas	49.07	1850-1	2006
14	8.21	2.89	24.84	0.79	18.79	Peas	49.06	1997-2	2006
15	9.03	3.11	24.81	1.33	16.72	Peas	50.08	Alfetta	2006
16	7.43	2.74	24.98	0.92	16.43	Peas	47.37	1861-16	2006
17	8.41	2.72	25.35	1.11	19.6	Peas	51.3	1782-2	2006
18	8.65	3.03	25.47	1.31	21.3	Peas	49.95	1780-5	2006
19	9.9	2.62	24.8	0.99	21.51	Peas	49.08	1781-4	2006
MIN	7.29	1.85	24.12	0.79	15.32		47.12		2006
MAX	9.96	3.44	26.94	1.37	21.79		52.99		2006
AVG	8.517368	2.630526	25.31474	1.130526	18.55842		49.51368		2006
SUM	161.83	49.98	480.98	21.48	352.61		940.76		38114

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07MFEYT01-01	Cutlass (2820)	Sutherland	22.41	1.68	6.68	15.25	0.78	49.45
07MFEYT01-02	Rambo (2825)	Sutherland	21.86	1.84	6.22	14.60	1.14	43.61
07MFEYT01-03	WM-10 (2807)	Sutherland	23.31	1.50	7.00	15.66	1.27	45.14
07MFEYT01-04	MFR042 (2811)	Sutherland	23.76	1.78	6.46	15.35	1.25	43.44
07MFEYT01-05	MFS041 (2805)	Sutherland	23.75	1.54	6.88	14.66	1.14	44.34
07MFEYT01-06	MFR043 (2802)	Sutherland	23.08	1.71	6.87	15.33	1.22	42.78
07MFEYT01-07	178M-8 (2832)	Sutherland	24.49	1.54	6.74	15.04	1.31	43.23
07MFEYT01-08	DS49519 (2818)	Sutherland	21.77	2.03	6.62	14.52	1.38	46.52
07MFEYT01-09	CDC Striker (2813)	Sutherland	23.86	1.82	6.53	15.84	0.81	49.69
07MFEYT01-10	Cooper (2810)	Sutherland	22.74	1.71	6.65	14.94	1.00	44.43
07MFEYT01-11	434-2 (2835)	Sutherland	23.13	1.75	6.76	14.80	1.17	44.98
07MFEYT01-12	576-1(2831)	Sutherland	23.29	1.85	6.42	15.05	1.58	42.54
07MFEYT01-13	576-3(2809)	Sutherland	23.87	1.79	6.46	14.17	1.10	42.60
07MFEYT01-14	429-1 (2834)	Sutherland	23.99	1.30	7.04	15.35	0.94	43.83
07MFEYT01-15	502-1 (2830)	Sutherland	23.67	1.80	6.62	14.60	1.40	46.59
07MFEYT01-16	476-4 (2804)	Sutherland	24.29	1.76	6.45	14.24	0.88	43.74
07MFEYT01-17	502-2 (2833)	Sutherland	22.08	1.84	6.77	14.82	1.38	45.61
07MFEYT01-18	295-3 (2814)	Sutherland	25.12	1.75	6.99	15.17	0.97	43.24
07MFEYT01-19	576-7 (2826)	Sutherland	23.24	1.94	6.63	15.14	0.96	46.55
07MFEYT01-20	374-3 (2823)	Sutherland	24.01	1.64	6.81	15.12	1.10	42.74
07MFEYT01-21	599-2 (2821)	Sutherland	24.72	1.56	6.93	15.12	1.06	45.38
07MFEYT01-22	600-1(2812)	Sutherland	23.30	1.68	6.55	14.50	0.86	46.48
07MFEYT01-23	600-2 (2803)	Sutherland	21.88	1.83	6.84	15.28	1.02	46.03
07MFEYT01-24	602-3 (2816)	Sutherland	23.03	1.75	6.41	14.91	0.86	45.64
07MFEYT01-25	604-1 (2836)	Sutherland	24.47	1.60	6.72	14.53	0.98	43.98
07MFEYT01-26	604-2 (2822)	Sutherland	23.38	1.55	6.76	14.66	0.93	43.97
07MFEYT01-27	606-1 (2806)	Sutherland	24.62	1.62	6.98	14.68	0.82	46.16
07MFEYT01-28	606-3 (2808)	Sutherland	22.97	1.65	6.66	14.72	0.89	43.09
07MFEYT01-29	606-4 (2824)	Sutherland	24.22	1.80	6.44	14.91	0.97	45.61
07MFEYT01-30	607-4 (2827)	Sutherland	23.21	1.78	6.85	14.89	1.02	45.06
07MFEYT01-31	612-9 (2829)	Sutherland	23.92	1.87	6.47	14.43	1.20	45.64
07MFEYT01-32	618-10 (2817)	Sutherland	22.69	1.79	6.77	15.55	1.12	44.54
07MFEYT01-33	618-12 (2815)	Sutherland	23.70	1.70	6.65	15.85	0.90	44.67
07MFEYT01-34	620-3 (2801)	Sutherland	22.95	1.81	6.68	15.33	1.36	42.48
07MFEYT01-35	645-1 (2819)	Sutherland	22.79	1.77	6.55	14.62	1.19	43.40

07MFEYT01-36	646-1 (2828)	Sutherland	22.94	1.72	6.73	14.96	1.32	42.40
07MFEYT01-01	Cutlass (2915)	Rosthern	22.19	1.67	6.77	15.62	1.23	46.43
07MFEYT01-02	Rambo (2919)	Rosthern	21.09	1.87	6.96	15.68	1.08	41.52
07MFEYT01-03	WM-10 (2925)	Rosthern	23.29	1.71	7.09	16.30	1.04	43.59
07MFEYT01-04	MFR042 (2928)	Rosthern	23.74	1.71	6.80	16.26	0.93	40.96
07MFEYT01-05	MFS041 (2921)	Rosthern	23.79	1.55	7.21	15.40	1.16	43.39
07MFEYT01-06	MFS043 (2903)	Rosthern	21.98	1.67	6.93	16.27	1.36	41.05
07MFEYT01-07	178M-8 (2927)	Rosthern	23.22	1.57	6.92	16.33	1.07	41.75
07MFEYT01-08	DS49519 (2920)	Rosthern	21.24	1.98	6.47	14.85	1.21	42.86
07MFEYT01-09	CDC Striker (2912)	Rosthern	24.03	1.79	6.34	15.13	0.83	44.35
07MFEYT01-10	Cooper (2905)	Rosthern	21.38	1.70	6.63	15.42	1.09	45.47
07MFEYT01-11	434-2 (2908)	Rosthern	21.85	1.74	6.74	15.65	1.09	44.52
07MFEYT01-12	576-1 (2926)	Rosthern	23.67	1.72	7.07	15.35	0.91	43.02
07MFEYT01-13	576-3 (2929)	Rosthern	24.01	1.60	6.68	15.36	0.99	42.31
07MFEYT01-14	429-1(2909)	Rosthern	24.19	1.23	6.87	15.70	0.92	43.68
07MFEYT01-15	502-1 (2918)	Rosthern	23.94	1.63	6.71	15.28	1.00	44.47
07MFEYT01-16	476-4 (2932)	Rosthern	24.72	1.60	6.90	15.36	0.86	40.44
07MFEYT01-17	502-2 (2934)	Rosthern	23.52	1.63	6.88	15.83	1.17	43.35
07MFEYT01-18	295-3 (2914)	Rosthern	24.65	1.43	7.04	15.92	0.85	42.93
07MFEYT01-19	576-7 (2910)	Rosthern	22.40	1.66	7.38	15.61	0.84	45.64
07MFEYT01-20	374-3 (2922)	Rosthern	23.75	1.54	6.85	15.11	0.83	43.47
07MFEYT01-21	599-2 (2904)	Rosthern	24.65	1.30	7.12	16.25	1.33	42.74
07MFEYT01-22	600-1 (2933)	Rosthern	23.45	1.42	6.85	15.35	0.91	44.30
07MFEYT01-23	600-2 (2930)	Rosthern	23.62	1.51	6.65	15.18	0.86	43.62
07MFEYT01-24	602-3 (2935)	Rosthern	23.61	1.43	6.77	15.79	0.64	44.80
07MFEYT01-25	604-1 (2906)	Rosthern	23.04	1.34	7.00	15.45	1.13	43.59
07MFEYT01-26	604-2 (2931)	Rosthern	23.58	1.22	7.01	15.99	0.96	43.43
07MFEYT01-27	606-1 (2924)	Rosthern	23.26	1.52	6.89	14.78	0.75	41.57
07MFEYT01-28	606-3 (2902)	Rosthern	24.17	1.33	6.96	15.74	0.97	40.41
07MFEYT01-29	606-4 (2916)	Rosthern	22.90	1.69	6.98	15.55	1.12	44.24
07MFEYT01-30	607-4 (2936)	Rosthern	24.67	1.43	7.09	16.07	1.04	42.48
07MFEYT01-31	612-9 (2923)	Rosthern	23.92	1.54	6.99	15.14	0.81	44.93
07MFEYT01-32	618-10 (2907)	Rosthern	22.34	1.49	7.04	16.61	0.80	44.16
07MFEYT01-33	618-12 (2917)	Rosthern	22.97	1.43	7.09	16.10	1.06	43.09
07MFEYT01-34	620-3 (2913)	Rosthern	23.61	1.46	7.51	15.86	0.95	43.23

07MFEYT01-35	645-1 (2911)	Rosthern	22.69	1.54	6.98	15.89	0.65	42.88
07MFEYT01-36	646-1 (2901)	Rosthern	22.74	1.53	7.20	15.98	1.07	42.16
07MFEYT01-01	Cutlass (3129)	Rouleau	21.33	2.21	6.19	14.34	0.70	45.99
07MFEYT01-02	Rambo (3121)	Rouleau	22.56	2.29	6.00	13.33	0.68	40.36
07MFEYT01-03	WM-10 (3108)	Rouleau	22.64	2.06	6.49	14.88	1.01	43.30
07MFEYT01-04	MFR042 (3104)	Rouleau	22.23	2.25	6.09	14.80	0.93	42.73
07MFEYT01-05	MFS041 (3106)	Rouleau	21.98	2.19	6.46	13.97	1.04	42.13
07MFEYT01-06	MFR043 (3120)	Rouleau	22.38	2.14	5.89	14.60	0.81	39.79
07MFEYT01-07	178M-8 (3125)	Rouleau	23.75	2.14	6.05	13.99	0.87	39.41
07MFEYT01-08	DS49519 (3136)	Rouleau	21.77	2.38	6.11	13.10	0.87	43.37
07MFEYT01-09	CDC Striker (3117)	Rouleau	23.88	2.39	6.16	13.61	0.70	44.80
07MFEYT01-10	Cooper (3109)	Rouleau	22.42	2.27	6.31	13.80	0.79	42.23
07MFEYT01-11	434-2 (3133)	Rouleau	23.27	2.23	6.02	14.06	1.01	40.78
07MFEYT01-12	576-1 (3116)	Rouleau	22.51	2.37	5.79	13.73	0.96	42.62
07MFEYT01-13	576-3 (3103)	Rouleau	23.34	2.20	5.88	14.09	1.13	39.86
07MFEYT01-14	429-1 (3132)	Rouleau	24.36	1.84	6.17	14.41	0.79	41.19
07MFEYT01-15	502-1 (3126)	Rouleau	22.68	2.21	6.25	13.97	1.13	43.27
07MFEYT01-16	476-4 (3124)	Rouleau	24.08	2.36	5.87	13.28	0.60	40.00
07MFEYT01-17	502-2 (3128)	Rouleau	21.91	2.20	6.11	13.89	1.05	41.45
07MFEYT01-18	295-3 (3101)	Rouleau	23.76	2.00	6.04	13.90	0.91	40.03
07MFEYT01-19	576-7 (3118)	Rouleau	22.59	2.43	6.04	13.06	1.01	41.11
07MFEYT01-20	374-3 (3135)	Rouleau	24.36	2.21	6.26	13.73	0.97	39.71
07MFEYT01-21	599-2 (3112)	Rouleau	24.54	2.15	6.07	14.15	1.00	42.01
07MFEYT01-22	600-1 (3127)	Rouleau	22.05	2.28	5.73	12.98	0.82	39.87
07MFEYT01-23	600-2 (3130)	Rouleau	21.63	2.20	5.78	14.01	0.88	41.08
07MFEYT01-24	602-3 (3114)	Rouleau	23.29	2.05	6.12	14.17	1.00	42.25
07MFEYT01-25	604-1 (3107)	Rouleau	23.67	2.08	5.94	13.52	0.93	39.59
07MFEYT01-26	604-2 (3110)	Rouleau	22.37	2.00	6.22	14.24	0.90	40.76
07MFEYT01-27	606-1 (3123)	Rouleau	23.24	2.15	6.05	13.65	0.92	39.84
07MFEYT01-28	606-3 (3113)	Rouleau	21.63	2.18	6.11	14.19	1.04	38.67
07MFEYT01-29	606-4 (3119)	Rouleau	23.09	2.26	6.05	14.02	0.72	42.16
07MFEYT01-30	607-4 (3115)	Rouleau	21.86	2.34	6.19	14.11	1.10	41.18
07MFEYT01-31	612-9 (3122)	Rouleau	22.60	2.22	5.83	13.74	1.13	40.14
07MFEYT01-32	618-10 (3102)	Rouleau	23.82	2.06	6.17	14.66	0.88	40.85
07MFEYT01-33	618-12 (3134)	Rouleau	23.59	2.12	5.86	14.49	0.92	40.27

07MFEYT01-34	620-3 (3131)	Rouleau	22.25	2.44	5.83	13.37	1.00	40.11
07MFEYT01-35	645-1 (3111)	Rouleau	22.18	2.16	5.91	13.62	0.91	39.97
07MFEYT01-36	646-1 (3105)	Rouleau	21.60	2.17	5.82	14.66	1.30	40.55

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07PAYT01-1	CUTLASS (118)	Sutherland	17.18	1.89	6.16	15.63	0.55	51.56
07PAYT01-2	Eclipse (111)	Sutherland	19.17	1.97	5.78	14.49	0.80	46.01
07PAYT01-3	CDC Meadow (104)	Sutherland	19.07	1.59	6.26	15.47	0.70	46.99
07PAYT01-4	2478-7 (101)	Sutherland	20.36	1.41	6.08	15.29	0.77	47.10
07PAYT01-5	2478-9 (123)	Sutherland	18.80	1.79	6.19	15.32	0.79	48.19
07PAYT01-6	2486-4 (110)	Sutherland	20.07	1.29	6.55	16.14	0.83	46.18
07PAYT01-7	2487-6 (121)	Sutherland	18.82	1.65	6.31	15.19	0.58	50.84
07PAYT01-8	2261-1 (113)	Sutherland	17.40	1.77	6.49	16.23	0.83	50.99
07PAYT01-9	2491-81 (124)	Sutherland	20.47	1.44	6.53	16.16	0.91	49.99
07PAYT01-10	2248-8 (115)	Sutherland	17.96	1.44	6.41	15.91	0.93	50.77
07PAYT01-11	2396-2 (135)	Sutherland	19.21	1.62	6.49	15.28	0.53	50.31
07PAYT01-12	2492-8 (127)	Sutherland	20.70	1.71	6.13	14.49	0.53	45.67
07PAYT01-13	2303-4 (132)	Sutherland	21.03	1.80	5.71	15.08	0.71	47.32
07PAYT01-14	2363-4 (130)	Sutherland	21.26	1.26	6.51	15.83	0.98	46.76
07PAYT01-15	2363-5 (105)	Sutherland	20.42	1.79	6.03	15.05	0.82	46.81
07PAYT01-16	2363-6 (109)	Sutherland	21.65	1.52	6.13	15.17	0.70	46.16
07PAYT01-17	2363-7(128)	Sutherland	19.96	1.54	6.26	15.85	0.64	47.64
07PAYT01-18	2363-9 (117)	Sutherland	19.40	1.29	6.81	16.84	0.93	50.32
07PAYT01-19	2363-13 (107)	Sutherland	20.35	1.57	6.23	15.10	0.53	49.03
07PAYT01-20	2363-21 (131)	Sutherland	19.41	1.68	5.87	14.60	0.66	48.98
07PAYT01-21	2296-21 (133)	Sutherland	18.87	1.49	6.46	16.74	1.24	49.87
07PAYT01-22	2485-3 (112)	Sutherland	20.41	1.84	5.95	15.11	0.78	46.99
07PAYT01-23	2392-4 (122)	Sutherland	18.80	1.63	6.58	16.00	0.84	51.48
07PAYT01-24	2392-5 (119)	Sutherland	20.33	1.63	6.15	16.15	0.73	48.60
07PAYT01-25	2392-9 (116)	Sutherland	19.06	1.67	6.11	15.33	0.86	49.81
07PAYT01-26	2392-13 (129)	Sutherland	19.72	1.70	6.31	15.61	0.54	48.52
07PAYT01-27	2392-18 (108)	Sutherland	18.08	1.53	6.27	16.17	0.78	51.88
07PAYT01-28	2392-25 (134)	Sutherland	19.31	1.76	6.34	15.03	0.42	47.21
07PAYT01-29	2392-38 (106)	Sutherland	18.75	1.76	6.06	15.31	0.78	51.39
07PAYT01-30	2392-41 (103)	Sutherland	18.69	1.64	6.10	15.90	0.54	48.76
07PAYT01-31	2392-51 (126)	Sutherland	19.14	1.42	5.92	16.09	0.76	49.01
07PAYT01-32	2392-55 (114)	Sutherland	19.49	1.65	6.31	15.41	0.59	48.13
07PAYT01-33	2392-59 (102)	Sutherland	21.20	1.61	6.26	16.16	0.61	48.86
07PAYT01-34	2392-60 (125)	Sutherland	20.30	1.61	6.39	15.45	0.64	44.84
07PAYT01-35	2392-61 (136)	Sutherland	18.35	1.67	6.23	16.17	0.71	52.68

07PAYT01-36	2254-3 (120)	Sutherland	18.07	1.84	6.09	15.86	0.72	50.27
07PAYT02-01	Cutlass (702)	Sutherland	17.85	1.54	6.44	15.67	0.61	50.97
07PAYT02-02	Eclipse (717)	Sutherland	18.00	1.55	6.21	15.88	0.81	50.14
07PAYT02-03	CDC Meadow (731)	Sutherland	19.42	1.33	6.57	16.26	0.51	50.90
07PAYT02-04	2480-4 (701)	Sutherland	17.49	1.41	6.46	16.55	0.83	50.21
07PAYT02-05	2283-1 (714)	Sutherland	18.53	1.66	6.22	16.14	1.25	49.06
07PAYT02-06	2283-3 (710)	Sutherland	17.06	1.69	6.43	16.57	0.85	51.24
07PAYT02-07	2283-17 (723)	Sutherland	19.21	1.30	7.17	17.41	0.72	52.44
07PAYT02-08	2283-19 (730)	Sutherland	18.87	1.64	6.49	16.06	0.58	52.18
07PAYT02-09	2283-20 (734)	Sutherland	20.30	1.54	6.29	16.66	0.74	48.91
07PAYT02-10	2283-23 (708)	Sutherland	18.63	1.45	6.68	17.34	0.97	52.21
07PAYT02-11	2283-25 (725)	Sutherland	19.09	1.80	6.38	15.67	0.93	49.39
07PAYT02-12	2283-28 (718)	Sutherland	17.26	1.45	6.43	16.07	0.86	50.58
07PAYT02-13	2283-33 (711)	Sutherland	18.23	1.51	6.62	16.72	1.13	51.17
07PAYT02-14	2283-36 (724)	Sutherland	18.31	1.42	6.19	16.50	0.68	49.73
07PAYT02-15	2281-7 (733)	Sutherland	18.58	1.63	6.57	15.57	0.80	49.98
07PAYT02-16	2381-12 (722)	Sutherland	18.78	1.55	6.32	15.75	1.03	51.13
07PAYT02-17	2240-2 (716)	Sutherland	18.26	1.49	6.28	16.89	0.74	51.11
07PAYT02-18	2468-6 (735)	Sutherland	19.87	1.65	6.45	15.07	0.70	48.20
07PAYT02-19	2468-15 (721)	Sutherland	19.23	1.62	6.12	16.12	0.80	46.98
07PAYT02-20	2361-1 (732)	Sutherland	19.56	1.69	6.01	15.84	0.69	51.35
07PAYT02-21	2361-4 (707)	Sutherland	19.48	1.44	6.57	15.91	1.05	49.47
07PAYT02-22	2331-4 (728)	Sutherland	19.44	1.59	6.35	15.93	0.89	50.77
07PAYT02-23	2320-3 (720)	Sutherland	21.00	1.20	6.65	16.93	1.13	50.58
07PAYT02-24	2353-4 (712)	Sutherland	17.73	1.57	6.44	16.14	0.98	50.49
07PAYT02-25	2353-17 (726)	Sutherland	18.47	1.71	6.32	15.39	0.79	50.03
07PAYT02-26	2364-4 (709)	Sutherland	19.08	1.30	6.94	16.75	0.87	52.64
07PAYT02-27	2364-14 (703)	Sutherland	19.44	1.61	6.09	16.08	1.22	50.36
07PAYT02-28	2362-8 (736)	Sutherland	20.28	1.30	6.33	15.99	1.03	46.71
07PAYT02-29	2390-6 (719)	Sutherland	19.35	1.33	6.27	16.97	0.90	48.59
07PAYT02-30	2390-14 (704)	Sutherland	18.22	1.56	5.98	15.73	0.94	50.00
07PAYT02-31	2390-17 (729)	Sutherland	19.26	1.48	6.08	16.30	0.64	48.97
07PAYT02-32	2390-18 (706)	Sutherland	20.41	1.41	6.12	16.41	0.91	48.14
07PAYT02-33	2390-28 (713)	Sutherland	18.80	1.39	6.58	16.51	0.87	50.23
07PAYT02-34	2390-48 (727)	Sutherland	20.22	1.50	6.16	16.19	0.92	48.51

07PAYT02-35	2390-62 (715)	Sutherland	17.95	1.54	6.34	16.95	1.25	51.03
07PAYT02-36	2390-67 (705)	Sutherland	18.27	1.41	6.39	16.94	0.69	51.69
07PAYT03-01	Cutlass (1335)	Sutherland	18.56	1.33	6.74	16.62	0.86	50.30
07PAYT03-02	Eclipse (1317)	Sutherland	20.24	1.34	6.57	16.56	0.93	49.81
07PAYT03-03	CDC Meadow (1310)	Sutherland	18.75	1.32	6.65	16.51	0.94	51.80
07PAYT03-04	2390-70 (1306)	Sutherland	19.02	1.38	6.34	16.02	0.77	53.88
07PAYT03-05	2390-93 (1327)	Sutherland	19.76	1.28	6.63	16.09	0.95	51.43
07PAYT03-06	2390-94 (1332)	Sutherland	19.03	1.31	6.42	16.61	0.78	51.27
07PAYT03-07	2389-6 (1330)	Sutherland	19.06	1.27	6.77	16.48	0.96	48.96
07PAYT03-08	2389-8 (1322)	Sutherland	20.30	1.50	6.63	16.00	0.77	48.76
07PAYT03-09	2389-16 (1304)	Sutherland	19.69	1.49	6.84	16.33	0.81	45.99
07PAYT03-10	2389-30 (1334)	Sutherland	19.16	1.17	6.84	16.79	0.81	46.72
07PAYT03-11	2389-36 (1309)	Sutherland	18.93	1.52	6.41	16.12	0.59	50.94
07PAYT03-12	2259-5 (1326)	Sutherland	19.12	1.45	6.50	16.71	0.85	51.52
07PAYT03-13	2259-7 (1314)	Sutherland	20.04	1.52	6.60	16.04	0.64	50.01
07PAYT03-14	2259-9 (1307)	Sutherland	18.64	1.64	6.24	15.80	0.72	48.77
07PAYT03-15	2259-13 (1336)	Sutherland	17.17	1.42	6.64	17.37	0.78	52.12
07PAYT03-16	2259-15 (1328)	Sutherland	19.56	1.51	6.39	15.99	0.92	52.20
07PAYT03-17	2259-17 (1323)	Sutherland	19.62	1.63	6.13	15.96	0.55	50.73
07PAYT03-18	2274-1 (1315)	Sutherland	17.89	1.53	6.21	16.70	0.87	52.53
07PAYT03-19	2274-4 (1321)	Sutherland	20.61	1.71	6.64	15.80	0.50	47.45
07PAYT03-20	2274-7 (1303)	Sutherland	17.74	1.50	6.57	17.22	0.90	52.85
07PAYT03-21	2274-8 (1308)	Sutherland	18.76	1.43	6.68	16.50	0.94	49.75
07PAYT03-22	2274-11 (1331)	Sutherland	18.22	1.59	6.48	16.90	0.91	51.67
07PAYT03-23	2279-3 (1312)	Sutherland	18.86	1.55	6.24	16.04	0.93	52.04
07PAYT03-24	2279-4 (1316)	Sutherland	19.53	1.53	6.44	16.62	1.01	50.98
07PAYT03-25	2304-6 (1324)	Sutherland	21.28	1.48	6.34	16.22	0.54	50.37
07PAYT03-26	2304-7 (1313)	Sutherland	19.67	1.42	6.33	15.80	0.69	50.66
07PAYT03-27	2356-12 (1320)	Sutherland	20.11	1.59	6.60	16.27	0.91	48.88
07PAYT03-28	2373-11 (1318)	Sutherland	20.75	1.41	6.35	16.23	0.68	49.40
07PAYT03-29	2373-20 (1325)	Sutherland	20.99	1.38	6.35	16.24	0.70	47.62
07PAYT03-30	2373-24 (1302)	Sutherland	22.96	1.39	6.46	16.40	0.64	47.04
07PAYT03-31	2366-10 (1305)	Sutherland	19.64	1.48	6.30	15.81	0.91	49.34
07PAYT03-32	2339-2 (1311)	Sutherland	18.74	1.55	6.19	15.81	1.07	50.46
07PAYT03-33	2339-3 (1329)	Sutherland	19.64	1.49	6.52	16.23	0.79	53.21

07PAYT03-34	2378-3 (1301)	Sutherland	19.25	1.33	6.78	16.18	0.97	47.78
07PAYT03-35	2378-22 (1319)	Sutherland	18.45	1.52	6.44	16.49	0.89	54.19
07PAYT03-36	2296-1 (1333)	Sutherland	20.77	1.68	6.06	15.84	0.79	47.97
07PAYT04-01	Cutlass (1923)	Sutherland	18.67	1.23	6.81	17.24	0.82	53.42
07PAYT04-02	Eclipse (1921)	Sutherland	19.47	1.62	7.10	16.92	0.80	50.93
07PAYT04-03	CDC Meadow (1919)	Sutherland	20.41	1.23	6.92	17.58	0.63	51.81
07PAYT04-04	2296-6 (1926)	Sutherland	18.56	1.40	6.75	16.52	0.93	50.97
07PAYT04-05	2296-8 (1917)	Sutherland	18.35	1.43	6.62	16.53	0.84	51.67
07PAYT04-06	2296-18 (1902)	Sutherland	19.48	1.47	6.62	16.62	0.64	53.91
07PAYT04-07	2277-17 (1905)	Sutherland	19.20	1.44	6.53	16.22	0.98	53.82
07PAYT04-08	2277-23 (1935)	Sutherland	17.98	1.34	6.61	17.26	0.91	51.51
07PAYT04-09	2277-39 (1909)	Sutherland	19.20	1.53	6.90	15.83	0.57	52.31
07PAYT04-10	2277-41 (1912)	Sutherland	19.02	1.46	6.65	16.79	0.80	51.47
07PAYT04-11	2277-44 (1918)	Sutherland	19.16	1.51	6.68	17.10	0.73	53.01
07PAYT04-12	2275-8 (1901)	Sutherland	20.36	1.41	6.42	16.39	0.36	49.85
07PAYT04-13	2275-44 (1911)	Sutherland	20.16	1.40	6.40	17.13	0.59	52.22
07PAYT04-14	2283-39 (1929)	Sutherland	18.19	1.45	6.87	18.23	0.58	53.14
07PAYT04-15	2283-46 (1934)	Sutherland	19.55	1.46	7.11	17.11	0.62	53.41
07PAYT04-16	2283-49 (1925)	Sutherland	20.36	1.36	6.90	17.37	0.64	51.85
07PAYT04-17	2272-47 (1910)	Sutherland	20.52	1.45	6.95	17.28	0.40	51.55
07PAYT04-18	2272-48 (1930)	Sutherland	20.06	1.44	6.65	16.48	0.08	50.01
07PAYT04-19	2272-49 (1915)	Sutherland	20.85	1.44	6.95	17.42	0.61	51.30
07PAYT04-20	2272-50 (1924)	Sutherland	19.30	1.53	6.95	17.13	0.58	51.44
07PAYT04-21	2272-52 (1931)	Sutherland	19.92	1.43	6.65	17.52	0.67	53.29
07PAYT04-22	2272-64 (1907)	Sutherland	19.42	1.36	6.86	15.94	0.72	47.10
07PAYT04-23	2272-71 (1913)	Sutherland	20.55	1.44	6.58	17.15	0.62	52.34
07PAYT04-24	2284-8 (1903)	Sutherland	21.03	1.53	6.03	15.35	0.52	52.20
07PAYT04-25	2284-11 (1928)	Sutherland	19.47	1.22	6.94	17.68	0.49	50.54
07PAYT04-26	2284-17 (1906)	Sutherland	19.76	1.31	6.64	16.55	0.67	49.63
07PAYT04-27	2284-18 (1904)	Sutherland	19.13	1.41	6.69	16.32	0.75	52.14
07PAYT04-28	2458-7 (1922)	Sutherland	20.90	1.30	6.76	16.69	0.46	48.69
07PAYT04-29	2475-1 (1916)	Sutherland	21.41	1.28	6.69	17.08	0.68	51.18
07PAYT04-30	2475-4 (1908)	Sutherland	20.06	1.48	6.46	16.73	0.42	49.58
06PAYT04-31	2475-5 (1933)	Sutherland	19.67	1.58	6.45	16.35	0.88	51.35
07PAYT04-32	2385-8 (1920)	Sutherland	19.98	1.46	6.80	17.01	0.49	48.63

07PAYT04-33	2385-9 (1927)	Sutherland	21.30	1.49	6.22	16.06	0.49	50.74
07PAYT04-34	2385-13 (1914)	Sutherland	20.20	1.35	6.52	17.20	0.52	50.59
07PAYT04-35	2385-14 (1936)	Sutherland	19.66	1.64	6.71	17.43	0.71	50.04
07PAYT04-36	2385-16 (1932)	Sutherland	21.12	1.47	6.63	17.17	0.74	50.49
07PAYT05-01	Cutlass (2519)	Sutherland	20.20	1.42	6.83	16.24	0.39	49.45
07PAYT05-02	Eclipse (2514)	Sutherland	21.25	1.47	6.68	16.09	0.61	48.22
07PAYT05-03	CDC Meadow (2522)	Sutherland	20.08	1.22	7.05	17.17	0.49	49.13
07PAYT05-04	2385-17 (2501)	Sutherland	20.38	1.32	6.64	16.92	0.77	48.66
07PAYT05-05	2385-24 (2507)	Sutherland	19.16	1.47	6.48	17.34	0.66	52.20
07PAYT05-06	2385-25 (2530)	Sutherland	19.93	1.59	6.92	17.21	0.56	49.65
07PAYT05-07	2385-27 (2528)	Sutherland	19.44	1.42	6.84	17.59	0.69	53.14
07PAYT05-08	2385-32 (2509)	Sutherland	19.77	1.39	6.64	16.69	0.49	52.17
07PAYT05-09	2385-33 (2524)	Sutherland	21.23	1.47	7.00	17.26	0.63	51.05
07PAYT05-10	2311-2 (2515)	Sutherland	20.93	1.43	7.00	16.93	0.23	48.55
07PAYT05-11	2311-4 (2503)	Sutherland	21.62	1.30	6.96	17.27	0.40	50.10
07PAYT05-12	2311-12 (2506)	Sutherland	20.85	1.39	6.89	16.91	0.51	50.58
07PAYT05-13	2311-13 (2512)	Sutherland	20.80	1.52	6.77	16.98	0.61	51.36
07PAYT05-14	2311-16 (2532)	Sutherland	21.33	1.41	6.84	16.92	0.69	48.24
07PAYT05-15	2311-17 (2510)	Sutherland	20.96	1.39	6.75	16.89	0.52	51.55
07PAYT05-16	2385-35 (2517)	Sutherland	19.80	1.35	6.69	17.46	0.50	50.62
07PAYT05-17	2385-48 (2502)	Sutherland	19.12	1.33	6.86	17.37	0.81	52.33
07PAYT05-18	2385-59 (2513)	Sutherland	19.82	1.51	6.77	17.00	0.47	51.60
07PAYT05-19	2385-60 (2516)	Sutherland	21.64	1.54	6.60	16.76	0.46	50.36
07PAYT05-20	2385-61 (2536)	Sutherland	20.61	1.47	6.41	16.75	0.53	49.67
07PAYT05-21	2384-23 (2511)	Sutherland	19.90	1.36	7.08	17.61	0.56	51.51
07PAYT05-22	2384-24 (2521)	Sutherland	21.23	1.29	6.71	17.29	0.39	49.03
07PAYT05-23	2384-26 (2534)	Sutherland	20.81	1.38	7.05	17.49	0.32	53.61
07PAYT05-24	2312-6 (2518)	Sutherland	20.10	1.28	6.84	17.26	0.51	50.90
07PAYT05-25	2351-1 (2525)	Sutherland	20.20	1.45	6.98	17.42	0.64	50.30
07PAYT05-26	2351-3 (2504)	Sutherland	20.44	1.53	6.64	16.13	0.84	47.54
07PAYT05-27	2351-6 (2529)	Sutherland	20.74	1.67	6.69	17.31	0.56	50.83
07PAYT05-28	2351-9 (2533)	Sutherland	21.21	1.33	6.63	18.20	0.33	50.36
07PAYT05-29	2351-10 (2531)	Sutherland	20.00	1.28	6.55	17.34	0.33	50.34
07PAYT05-30	2351-11 (2508)	Sutherland	19.93	1.46	7.11	17.57	0.42	51.57
07PAYT05-31	2351-13 (2526)	Sutherland	19.92	1.50	6.80	17.22	0.52	52.00

07PAYT05-32	2351-14 (2523)	Sutherland	20.56	1.17	6.81	18.53	0.46	50.98
07PAYT05-33	2351-16 (2505)	Sutherland	19.11	1.57	6.83	17.05	0.43	52.69
07PAYT05-34	2351-17 (2535)	Sutherland	20.11	1.68	6.33	17.56	0.46	50.26
07PAYT05-35	2351-18 (2527)	Sutherland	20.44	1.61	6.30	16.93	0.38	48.51
07PAYT05-36	2351-23 (2520)	Sutherland	17.55	1.81	5.81	16.72	0.70	50.40
07PAYT06-01	Cutlass (3130)	Sutherland	19.76	1.51	6.33	16.68	0.52	49.51
07PAYT06-02	Eclipse (3115)	Sutherland	20.79	1.55	6.30	16.25	0.97	47.93
07PAYT06-03	CDC Meadow (3119)	Sutherland	19.39	1.30	6.41	17.51	0.97	50.74
07PAYT06-04	2351-25 (3101)	Sutherland	19.99	1.43	6.26	16.61	0.61	48.43
07PAYT06-05	2351-26 (3136)	Sutherland	20.47	1.42	5.88	17.01	0.55	52.04
07PAYT06-06	2358-11 (3112)	Sutherland	21.19	1.18	6.53	17.24	0.72	48.05
07PAYT06-07	2358-13 (3125)	Sutherland	20.84	1.42	6.41	16.54	0.55	49.23
07PAYT06-08	2375-9 (3128)	Sutherland	20.99	1.31	6.73	17.14	0.85	47.67
07PAYT06-09	2375-12 (3104)	Sutherland	21.76	1.23	6.40	17.81	0.70	50.21
07PAYT06-10	2375-30 (3134)	Sutherland	21.31	1.29	6.44	16.76	0.74	48.30
07PAYT06-11	2350-3 (3124)	Sutherland	19.05	1.35	6.58	17.68	0.63	49.86
07PAYT06-12	2350-5 (3120)	Sutherland	19.97	1.48	7.06	16.97	0.85	53.20
07PAYT06-13	2350-15 (3132)	Sutherland	20.85	1.16	6.49	16.78	0.38	48.07
07PAYT06-14	2376-7 (3105)	Sutherland	20.76	1.27	6.87	17.31	0.39	51.89
07PAYT06-15	2376-10 (3102)	Sutherland	21.16	1.49	6.25	16.29	0.73	49.98
07PAYT06-16	2328-1 (3111)	Sutherland	20.94	1.33	6.32	17.13	0.51	48.99
07PAYT06-17	2306-2 (3107)	Sutherland	19.28	1.22	6.64	18.49	0.76	51.93
07PAYT06-18	2306-8 (3135)	Sutherland	20.60	1.38	6.49	17.71	0.40	50.97
07PAYT06-19	2280-3 (3127)	Sutherland	20.58	1.18	6.40	17.24	0.34	50.62
07PAYT06-20	2280-11 (3109)	Sutherland	19.92	1.48	6.17	16.78	0.66	50.75
07PAYT06-21	2280-19 (3122)	Sutherland	20.20	1.33	6.53	16.52	0.63	50.15
07PAYT06-22	2280-25 (3117)	Sutherland	21.77	1.40	6.20	16.42	0.52	48.62
07PAYT06-23	2287-67 (3133)	Sutherland	20.74	1.47	6.47	16.08	0.58	50.24
07PAYT06-24	2287-68 (3123)	Sutherland	19.22	1.49	6.35	16.74	0.37	48.78
07PAYT06-25	2287-69 (3110)	Sutherland	19.26	1.49	6.25	17.51	0.60	50.09
07PAYT06-26	2306-10 (3118)	Sutherland	20.01	1.46	5.83	17.42	0.53	51.80
07PAYT06-27	2357-6 (3103)	Sutherland	21.44	1.60	6.46	15.69	0.43	50.91
07PAYT06-28	2472-2 (3113)	Sutherland	21.19	1.39	6.01	17.60	0.46	50.83
07PAYT06-29	2360-5 (3131)	Sutherland	19.27	1.45	6.02	17.26	0.65	49.76
07PAYT06-30	2360-7 (3106)	Sutherland	19.98	1.44	6.47	17.34	0.73	51.33

07PAYT06-31	2360-14 (3108)	Sutherland	20.19	1.51	5.92	16.71	0.70	51.03
07PAYT06-32	2358-15 (3126)	Sutherland	19.87	1.49	5.86	16.17	0.51	49.06
07PAYT06-33	2310-4 (3121)	Sutherland	20.49	1.45	6.15	16.37	0.42	49.98
07PAYT06-34	2310-8 (3114)	Sutherland	20.32	1.42	6.41	16.79	0.64	49.01
07PAYT06-35	2310-13 (3116)	Sutherland	22.44	1.32	6.31	16.82	0.82	49.03
07PAYT06-36	2310-20 (3129)	Sutherland	21.52	1.60	6.32	15.87	0.66	49.03
07PAYT07-01	Cutlass (3719)	Sutherland	20.08	1.37	6.28	16.38	0.53	51.10
07PAYT07-02	Eclipse (3725)	Sutherland	20.26	1.59	6.13	15.90	0.77	48.39
07PAYT07-03	CDC Meadow (3733)	Sutherland	21.24	1.39	6.22	16.42	0.26	48.95
07PAYT07-04	2387-5 (3701)	Sutherland	21.14	1.59	6.42	16.19	0.80	48.81
07PAYT07-05	2332-2 (3715)	Sutherland	19.48	1.38	6.36	18.31	0.54	49.21
07PAYT07-06	2332-9 (3722)	Sutherland	20.79	1.21	6.33	17.71	0.63	47.87
07PAYT07-07	2383-1 (3703)	Sutherland	20.79	1.38	6.33	17.20	0.52	49.35
07PAYT07-08	2393-1 (3736)	Sutherland	20.80	1.45	5.97	16.51	0.71	51.03
07PAYT07-09	2393-13 (3711)	Sutherland	20.40	1.70	6.07	16.25	0.48	52.82
07PAYT07-10	2393-17 (3727)	Sutherland	20.26	1.64	6.59	17.03	0.53	50.36
07PAYT07-11	2393-27 (3706)	Sutherland	19.28	1.34	6.12	18.12	0.38	52.73
07PAYT07-12	2393-32 (3710)	Sutherland	20.20	1.45	6.41	16.69	0.67	47.52
07PAYT07-13	2393-35 (3714)	Sutherland	20.21	1.56	6.21	17.06	0.50	49.16
07PAYT07-14	2393-37 (3723)	Sutherland	20.43	1.36	6.33	16.62	0.19	47.50
07PAYT07-15	2393-47 (3731)	Sutherland	20.05	1.45	6.05	16.71	0.64	49.82
07PAYT07-16	2393-52 (3718)	Sutherland	20.85	1.44	6.63	17.46	0.35	52.34
07PAYT07-17	2393-55 (3735)	Sutherland	19.55	1.54	5.93	16.39	0.64	52.16
07PAYT07-18	2393-56 (3708)	Sutherland	19.96	1.52	6.14	16.98	0.27	50.33
07PAYT07-19	2393-67 (3717)	Sutherland	19.43	1.39	6.57	17.23	0.65	48.90
07PAYT07-20	2393-72 (3705)	Sutherland	19.32	1.40	6.77	17.84	0.71	52.87
07PAYT07-21	2393-77 (3728)	Sutherland	20.19	1.72	6.36	17.48	0.59	53.24
07PAYT07-22	2329-2 (3702)	Sutherland	20.19	1.49	6.86	16.95	0.61	49.14
07PAYT07-23	2329-5 (3716)	Sutherland	18.76	1.34	6.27	17.15	0.80	50.37
07PAYT07-24	2329-8 (3732)	Sutherland	19.25	1.36	6.60	17.66	0.76	47.76
07PAYT07-25	2329-17 (3712)	Sutherland	19.60	1.48	6.37	16.72	0.62	48.69
07PAYT07-26	2329-18 (3729)	Sutherland	20.37	1.41	6.26	15.69	0.38	48.24
07PAYT07-27	2329-21 (3724)	Sutherland	19.73	1.51	6.45	16.86	0.71	48.66
07PAYT07-28	2329-23 (3709)	Sutherland	19.76	1.32	6.27	17.31	0.66	50.57
07PAYT07-29	2329-26 (3704)	Sutherland	20.91	1.27	6.75	17.27	0.52	48.61

07PAYT07-30	2329-27 (3730)	Sutherland	19.98	1.40	6.56	18.02	0.78	50.69
07PAYT07-31	2336-37 (3707)	Sutherland	22.00	1.41	6.59	17.57	0.47	49.01
07PAYT07-32	2336-5 (3720)	Sutherland	21.71	1.37	6.70	18.45	0.48	48.63
07PAYT07-33	2391-2 (3713)	Sutherland	21.27	1.45	6.44	16.14	0.64	47.28
07PAYT07-34	2391-3 (3734)	Sutherland	21.83	1.42	6.24	16.05	0.47	47.19
07PAYT07-35	2391-4 (3721)	Sutherland	21.25	1.58	6.07	15.78	0.77	48.54
07PAYT07-36	2391-5 (3726)	Sutherland	20.94	1.47	6.79	15.98	0.52	48.11
07PAYT08-01	Cutlass (4304)	Sutherland	19.40	1.59	6.27	16.11	0.57	50.29
07PAYT08-02	Eclipse (4322)	Sutherland	20.95	1.57	6.39	16.19	0.58	47.49
07PAYT08-03	CDC Meadow (4306)	Sutherland	18.46	1.43	6.27	17.26	0.96	49.72
07PAYT08-04	2391-7 (4301)	Sutherland	20.76	1.39	6.24	16.27	0.60	47.84
07PAYT08-05	2391-12 (4331)	Sutherland	20.95	1.57	6.34	16.68	0.54	50.05
07PAYT08-06	2391-15 (4311)	Sutherland	18.93	1.53	6.02	16.35	0.71	50.11
07PAYT08-07	2391-20 (4328)	Sutherland	21.54	1.48	6.21	16.58	0.55	49.35
07PAYT08-08	2391-22 (4326)	Sutherland	19.02	1.47	6.33	16.68	0.81	49.52
07PAYT08-09	2391-31 (4334)	Sutherland	20.24	1.70	6.31	16.91	0.84	50.84
07PAYT08-10	2391-32 (4315)	Sutherland	20.28	1.62	6.23	16.05	0.60	50.15
07PAYT08-11	2391-33 (4321)	Sutherland	18.86	1.62	6.29	16.82	0.65	49.78
07PAYT08-12	2391-34 (4308)	Sutherland	20.84	1.51	6.36	16.46	0.64	46.67
07PAYT08-13	2391-36 (4316)	Sutherland	20.04	1.49	6.19	16.75	0.58	48.88
07PAYT08-14	2387-20 (4302)	Sutherland	19.30	1.57	6.06	15.98	0.71	50.00
07PAYT08-15	2387-22 (4307)	Sutherland	19.22	1.74	5.96	16.44	0.37	49.93
07PAYT08-16	2387-23 (4313)	Sutherland	18.92	1.49	6.57	16.93	0.77	51.99
07PAYT08-17	2387-24 (4336)	Sutherland	18.80	1.37	6.48	17.01	0.66	51.08
07PAYT08-18	2387-27 (4324)	Sutherland	19.42	1.40	6.52	16.79	0.64	49.01
07PAYT08-19	2387-28 (4310)	Sutherland	19.32	1.62	6.17	16.95	0.56	50.94
07PAYT08-20	2387-32 (4335)	Sutherland	19.71	1.64	6.03	16.70	0.83	49.42
07PAYT08-21	2387-33 (4325)	Sutherland	20.68	1.47	6.41	16.12	0.45	50.24
07PAYT08-22	2387-35 (4317)	Sutherland	19.59	1.51	6.21	17.38	0.76	49.09
07PAYT08-23	2387-38 (4329)	Sutherland	19.38	1.47	5.97	17.14	0.62	50.89
07PAYT08-24	2387-41 (4320)	Sutherland	19.31	1.49	6.12	16.67	0.25	52.09
07PAYT08-25	2387-44 (4327)	Sutherland	19.48	1.39	6.28	17.60	0.38	51.10
07PAYT08-26	2387-46 (4332)	Sutherland	20.85	1.60	6.03	16.99	0.81	52.60
07PAYT08-27	2387-48 (4323)	Sutherland	18.99	1.53	6.39	16.76	0.44	50.55
07PAYT08-28	2496-1 (4330)	Sutherland	21.67	1.59	6.51	16.18	0.58	49.81

07PAYT08-29	2244-3 (4318)	Sutherland	20.14	1.54	6.29	16.93	0.31	49.59
07PAYT08-30	2403-28 (4333)	Sutherland	20.25	1.66	6.23	16.37	0.58	50.40
07PAYT08-31	2246-3 (4314)	Sutherland	19.87	1.29	6.37	17.59	0.48	48.84
07PAYT08-32	2246-4 (4319)	Sutherland	19.54	1.26	6.64	16.72	0.67	50.01
07PAYT08-33	2242-2 (4309)	Sutherland	20.00	1.44	6.85	18.31	0.76	50.33
07PAYT08-34	2242-3 (4305)	Sutherland	19.97	1.45	6.26	17.76	0.46	49.42
07PAYT08-35	2387-51 (4303)	Sutherland	18.85	1.57	6.36	17.37	0.79	50.63
07PAYT08-36	2387-53 (4312)	Sutherland	19.07	1.59	6.38	16.80	0.52	49.08
07PAYT09-01	Cutlass (4925)	Sutherland	19.42	1.48	6.51	16.37	0.58	51.30
07PAYT09-02	Eclipse (4907)	Sutherland	19.91	1.46	6.55	16.36	0.67	48.31
07PAYT09-03	CDC Meadow (4923)	Sutherland	18.60	1.46	6.53	17.26	0.88	50.84
07PAYT09-04	2281-3 (4901)	Sutherland	18.58	1.34	6.24	17.99	0.60	52.23
07PAYT09-05	2281-6 (4906)	Sutherland	18.90	1.43	6.59	17.93	0.61	52.05
07PAYT09-06	2281-26 (4926)	Sutherland	19.41	1.47	6.43	16.16	0.68	51.04
07PAYT09-07	2281-28 (4914)	Sutherland	19.69	1.33	6.46	17.42	0.51	49.60
07PAYT09-08	2281-32 (4918)	Sutherland	18.75	1.42	6.16	17.58	0.87	49.62
07PAYT09-09	2281-34 (4903)	Sutherland	19.15	1.39	6.40	17.90	0.56	51.29
07PAYT09-10	2281-36 (4909)	Sutherland	21.73	1.28	6.35	17.25	0.60	49.30
07PAYT09-11	2281-45 (4928)	Sutherland	19.76	1.58	6.16	16.48	0.62	50.38
07PAYT09-12	2380-12 (4913)	Sutherland	20.27	1.36	6.76	17.66	0.39	51.09
07PAYT09-13	2380-16 (4905)	Sutherland	21.26	1.29	6.53	17.48	0.33	50.08
07PAYT09-14	2380-19 (4917)	Sutherland	18.87	1.42	6.65	17.00	0.57	51.72
07PAYT09-15	2380-25 (4911)	Sutherland	19.51	1.36	6.38	16.89	0.60	51.65
07PAYT09-16	2380-28 (4902)	Sutherland	20.36	1.32	6.76	17.23	0.14	50.55
07PAYT09-17	2380-32 (4922)	Sutherland	19.10	1.57	6.35	16.94	0.63	51.91
07PAYT09-18	2380-47 (4929)	Sutherland	19.57	1.40	6.48	17.05	0.57	49.25
07PAYT09-19	2380-50 (4936)	Sutherland	20.23	1.42	6.37	18.10	0.72	50.75
07PAYT09-20	2380-62 (4920)	Sutherland	21.21	1.35	6.53	17.31	0.73	46.77
07PAYT09-21	2380-69 (4904)	Sutherland	21.03	1.36	6.63	17.90	0.48	50.54
07PAYT09-22	2308-4 (4935)	Sutherland	20.01	1.45	6.52	17.04	0.54	51.28
07PAYT09-23	2308-14 (4924)	Sutherland	21.12	1.46	6.55	16.76	0.59	50.22
07PAYT09-24	2282-3 (4921)	Sutherland	20.05	1.16	6.39	16.85	0.61	47.10
07PAYT09-25	2282-7 (4927)	Sutherland	19.90	1.43	6.09	16.05	0.60	50.57
07PAYT09-26	2282-11 (4930)	Sutherland	20.49	1.10	6.24	17.51	0.68	48.10
07PAYT09-27	2282-13 (4932)	Sutherland	19.26	1.39	6.33	18.62	0.77	51.49

07PAYT09-28	2282-14 (4908)	Sutherland	21.38	1.41	6.36	16.91	0.74	50.52
07PAYT09-29	2282-15 (4916)	Sutherland	21.01	1.41	6.17	16.82	0.46	49.58
07PAYT09-30	2282-17 (4934)	Sutherland	20.59	1.29	6.25	17.47	0.48	50.37
07PAYT09-31	2282-21 (4919)	Sutherland	18.84	1.31	6.43	18.11	0.35	50.01
07PAYT09-32	2282-23 (4912)	Sutherland	22.09	1.29	6.51	17.67	0.58	49.49
07PAYT09-33	2282-28 (4931)	Sutherland	22.23	1.33	6.22	17.61	0.51	50.13
07PAYT09-34	2282-29 (4933)	Sutherland	21.84	1.27	6.50	18.15	0.52	49.45
07PAYT09-35	2379-10 (4915)	Sutherland	21.38	1.45	5.94	16.60	0.64	48.32
07PAYT09-36	2379-12 (4910)	Sutherland	20.83	1.39	5.98	16.66	0.66	48.23
07PAYT10-01	Cutlass (5503)	Sutherland	20.32	1.54	6.73	16.01	0.44	50.01
07PAYT10-02	Eclipse (5512)	Sutherland	19.71	1.55	6.25	16.67	0.68	49.67
07PAYT10-03	CDC Meadow (5519)	Sutherland	18.49	1.34	6.59	17.24	0.79	50.39
07PAYT10-04	2379-13 (5501)	Sutherland	19.38	1.44	6.30	16.41	0.81	50.12
07PAYT10-05	2379-19 (5523)	Sutherland	19.64	1.32	6.41	17.89	0.79	52.25
07PAYT10-06	2379-20 (5529)	Sutherland	19.89	1.44	6.94	16.62	0.57	49.80
07PAYT10-07	2379-22 (5534)	Sutherland	19.75	1.41	6.59	16.59	0.83	50.04
07PAYT10-08	2379-25 (5536)	Sutherland	21.65	1.33	6.18	16.82	0.45	48.95
07PAYT10-09	2379-30 (5502)	Sutherland	20.80	1.30	6.48	16.02	0.57	49.24
07PAYT10-10	2379-38 (5517)	Sutherland	20.56	1.33	6.35	16.95	0.42	47.36
07PAYT10-11	2386-2 (5508)	Sutherland	18.92	1.45	6.31	17.08	0.52	50.64
078PAYT10-12	2386-6 (5514)	Sutherland	18.63	1.55	6.63	16.30	0.79	49.66
07PAYT10-13	2305-3 (5526)	Sutherland	21.11	1.24	6.48	17.98	0.87	50.92
07PAYT10-14	2305-12 (5531)	Sutherland	20.14	1.34	6.30	17.22	0.69	46.48
07PAYT10-15	2305-18 (5509)	Sutherland	21.52	1.14	5.91	17.30	0.44	47.68
07PAYT10-16	2286-11 (5515)	Sutherland	19.93	1.46	6.48	16.85	0.67	48.51
07PAYT10-17	2286-15 (5505)	Sutherland	20.58	1.41	6.48	17.89	0.53	51.62
07PAYT10-18	2382-3 (5510)	Sutherland	22.22	1.51	6.37	17.06	0.53	44.48
07PAYT10-19	2473-12 (5507)	Sutherland	19.75	1.37	6.24	18.26	0.67	50.99
07PAYT10-20	2287-9 (5513)	Sutherland	21.75	1.29	6.59	18.24	0.75	46.72
07PAYT10-21	2471-4 (5530)	Sutherland	19.67	1.35	6.34	17.15	0.56	53.56
07PAYT10-22	2388-12 (5506)	Sutherland	19.97	1.39	6.14	17.37	0.78	51.65
07PAYT10-23	2388-22 (5524)	Sutherland	20.07	1.52	6.31	16.66	0.63	49.46
07PAYT10-24	2388-35 (5532)	Sutherland	18.83	1.69	5.80	16.67	0.95	52.32
07PAYT10-25	2464-33 (5520)	Sutherland	19.21	1.88	5.78	15.75	0.79	47.02
07PAYT10-26	2464-36 (5511)	Sutherland	17.78	1.79	5.63	16.28	0.76	48.46

07PAYT10-27	2462-18 (5516)	Sutherland	19.36	1.44	6.27	17.69	0.59	49.10
07PAYT10-28	2462-30 (5521)	Sutherland	18.33	1.51	6.16	16.56	0.55	50.30
07PAYT10-29	2462-31 (5533)	Sutherland	19.46	1.45	6.14	15.49	0.84	47.32
07PAYT10-30	2289-7 (5504)	Sutherland	22.24	1.47	6.51	17.42	0.87	49.08
07PAYT10-31	2334-40 (5528)	Sutherland	19.32	1.49	6.24	17.39	0.47	49.77
07PAYT10-32	2300-9 (5518)	Sutherland	19.83	1.36	6.50	16.47	0.64	46.42
07PAYT10-33	2467-6 (5522)	Sutherland	18.69	1.53	6.39	16.62	0.59	50.54
07PAYT10-34	2467-9 (5525)	Sutherland	20.89	1.23	6.42	17.07	0.55	47.26
07PAYT10-35	2467-14 (5535)	Sutherland	19.06	1.43	6.32	17.30	0.86	50.28
07PAYT10-36	2466-8 (5527)	Sutherland	19.94	1.46	6.49	16.34	0.63	49.41
07PAYT11-01	Cutlass (6122)	Sutherland	18.85	1.27	6.52	17.02	0.61	50.06
07PAYT11-02	Eclipse (6115)	Sutherland	20.22	1.42	6.37	16.41	0.73	49.76
07PAYT11-03	CDC Meadow (6119)	Sutherland	18.40	1.36	6.42	16.64	0.77	53.64
07PAYT11-04	2466-15 (6101)	Sutherland	20.91	1.37	6.61	16.57	0.59	43.77
07PAYT11-05	2464-3 (6127)	Sutherland	20.60	1.36	6.10	17.09	0.67	49.90
07PAYT11-06	2374-1 (6111)	Sutherland	20.28	1.34	6.21	16.81	0.74	48.41
07PAYT11-07	2374-9 (6135)	Sutherland	20.32	1.23	6.42	17.10	0.50	49.07
07PAYT11-08	2374-10 (6126)	Sutherland	19.03	1.45	6.40	16.75	0.58	54.15
07PAYT11-09	2374-12 (6123)	Sutherland	20.85	1.50	6.11	16.50	0.39	48.14
07PAYT11-10	2335-9 (6106)	Sutherland	20.35	1.58	6.37	17.49	0.82	48.71
07PAYT11-11	2354-13 (6116)	Sutherland	20.72	1.33	6.43	16.96	0.41	49.18
07PAYT11-12	2354-14 (6133)	Sutherland	19.19	1.72	6.17	16.97	0.85	49.02
07PAYT11-13	2349-2 (6107)	Sutherland	19.70	1.25	6.37	17.94	0.75	47.18
07PAYT11-14	2349-3 (6136)	Sutherland	20.79	1.28	6.04	17.19	0.55	48.42
07PAYT11-15	2349-5 (6112)	Sutherland	20.09	1.38	6.34	18.23	0.60	46.93
07PAYT11-16	2349-16 (6132)	Sutherland	19.71	1.25	6.22	16.84	0.58	48.65
07PAYT11-17	2349-20 (6125)	Sutherland	19.05	1.43	6.56	17.89	0.80	47.01
07PAYT11-18	2395-5 (6130)	Sutherland	22.97	1.13	6.48	18.00	0.62	47.37
07PAYT11-19	2395-10 (6128)	Sutherland	21.99	1.13	6.33	16.94	0.59	46.77
07PAYT11-20	2395-15 (6104)	Sutherland	22.02	1.19	6.29	17.80	0.45	46.58
07PAYT11-21	2395-19 (6114)	Sutherland	21.81	1.11	6.59	17.49	0.59	46.10
07PAYT11-22	2395-20 (6108)	Sutherland	21.18	1.05	6.34	19.46	0.35	49.10
07PAYT11-23	2395-46 (6118)	Sutherland	19.83	1.09	6.41	17.53	0.87	46.28
07PAYT11-24	2395-56 (6129)	Sutherland	22.76	1.16	6.50	17.47	0.77	44.44
07PAYT11-25	2395-59 (6121)	Sutherland	21.17	1.25	6.38	16.98	0.68	49.69

07PAYT11-26	2464-25 (6113)	Sutherland	20.82	1.23	6.29	17.32	0.69	49.18
07PAYT11-27	2464-31 (6103)	Sutherland	21.50	1.56	6.19	16.91	0.66	47.47
07PAYT11-28	2334-9 (6131)	Sutherland	19.66	1.38	6.58	17.47	0.69	47.87
07PAYT11-29	2334-21 (6134)	Sutherland	20.70	1.45	6.06	17.11	0.55	48.23
07PAYT11-30	2334-23 (6120)	Sutherland	20.63	1.57	6.08	16.57	0.76	47.71
07PAYT11-31	2334-25 (6110)	Sutherland	19.94	1.31	6.72	18.69	0.61	49.71
07PAYT11-32	2334-27 (6105)	Sutherland	20.24	1.45	5.93	18.00	0.68	48.72
07PAYT11-33	2394-12 (6124)	Sutherland	21.34	1.22	6.47	17.04	0.39	49.27
07PAYT11-34	2394-21 (6117)	Sutherland	19.98	1.19	6.47	17.47	0.75	48.27
07PAYT11-35	2394-23 (6102)	Sutherland	20.71	1.13	6.67	18.16	0.72	50.05
07PAYT11-36	2394-24 (6109)	Sutherland	21.29	1.20	6.69	18.45	0.61	47.31
07PAYT12-01	Cutlass (6703)	Sutherland	20.65	1.46	6.48	17.07	0.50	48.50
07PAYT12-02	Eclipse (6709)	Sutherland	20.56	1.64	6.11	15.85	0.88	46.44
07PAYT12-03	CDC Meadow (6733)	Sutherland	18.71	1.37	6.63	17.34	0.86	47.49
07PAYT12-04	2394-26 (6701)	Sutherland	21.38	1.14	6.40	17.57	0.73	46.31
07PAYT12-05	2394-32 (6731)	Sutherland	21.41	1.10	6.29	18.47	0.36	48.24
07PAYT12-06	2394-34 (6721)	Sutherland	20.24	1.31	6.66	17.95	0.45	47.79
07PAYT12-07	2394-36 (6712)	Sutherland	21.17	1.15	7.17	18.75	0.42	49.08
07PAYT12-08	2394-39 (6710)	Sutherland	20.05	1.04	6.75	18.86	0.67	47.29
07PAYT12-09	2394-41 (6708)	Sutherland	21.39	1.01	6.67	17.81	0.73	47.13
07PAYT12-10	2394-50 (6717)	Sutherland	21.28	1.18	6.73	17.97	0.64	48.74
07PAYT12-11	2394-52 (6729)	Sutherland	19.32	1.36	6.70	18.20	0.66	50.40
07PAYT12-12	2394-56 (6720)	Sutherland	18.73	1.22	6.66	18.79	0.77	49.93
07PAYT12-13	2459-2 (6706)	Sutherland	21.84	1.56	6.10	17.32	0.79	48.20
07PAYT12-14	2394-58 (6713)	Sutherland	20.22	1.28	6.31	18.21	0.90	46.41
07PAYT12-15	2394-61 (6736)	Sutherland	20.27	1.08	6.47	18.16	0.46	47.33
07PAYT12-16	2394-64 (6734)	Sutherland	19.54	1.24	6.55	18.25	0.68	46.81
07PAYT12-17	2394-66 (6715)	Sutherland	19.75	1.20	6.60	17.69	0.77	46.46
07PAYT12-18	2273-4 (6732)	Sutherland	18.43	1.45	6.38	16.95	0.75	49.21
07PAYT12-19	2273-11 (6725)	Sutherland	21.05	1.43	6.25	16.74	0.92	48.52
07PAYT12-20	2273-14 (6704)	Sutherland	20.54	1.41	6.12	17.19	1.04	47.85
07PAYT12-21	2273-19 (6702)	Sutherland	19.96	1.52	5.92	16.87	1.08	49.30
07PAYT12-22	2273-24 (6730)	Sutherland	20.37	1.53	6.22	16.20	0.64	47.87
07PAYT12-23	2307-1 (6714)	Sutherland	21.69	1.41	6.61	18.13	0.88	47.82
07PAYT12-24	2307-6 (6705)	Sutherland	19.72	1.71	6.26	17.46	0.81	47.99

07PAYT12-25	2307-12 (6727)	Sutherland	20.75	1.25	6.53	18.26	0.37	48.97
07PAYT12-26	2262-3 (6718)	Sutherland	21.19	1.57	5.87	17.10	0.54	47.25
07PAYT12-27	2295-10 (6735)	Sutherland	21.00	1.32	6.24	17.35	0.51	47.19
07PAYT12-28	2295-13 (6724)	Sutherland	19.89	1.34	6.64	17.82	0.60	48.28
07PAYT12-29	2461-1 (6728)	Sutherland	19.81	1.58	6.33	16.75	0.63	48.82
07PAYT12-30	2461-12 (6722)	Sutherland	20.06	1.48	6.22	17.87	0.63	48.37
07PAYT12-31	2461-14 (6719)	Sutherland	18.83	1.52	6.53	17.92	0.84	48.68
07PAYT12-32	2460-3 (6711)	Sutherland	21.05	1.57	6.08	15.80	0.92	46.28
07PAYT12-33	2460-4 (6723)	Sutherland	21.50	1.31	6.28	16.72	0.43	46.41
07PAYT12-34	2460-10 (6726)	Sutherland	19.94	1.50	6.50	16.83	0.73	49.06
07PAYT12-35	2460-11 (6716)	Sutherland	19.24	1.43	6.53	17.72	0.74	48.60
07PAYT12-36	2241-6 (6707)	Sutherland	19.33	1.57	6.14	16.97	0.76	47.24
07PAYT13-01	Cutlass (7331)	Sutherland	20.80	1.51	6.28	16.41	0.58	47.29
07PAYT13-02	CDC Striker (7317)	Sutherland	22.10	1.59	6.17	15.61	0.92	44.78
07PAYT13-03	CDC Sage (7320)	Sutherland	22.39	1.45	6.27	15.27	0.85	43.51
07PAYT13-04	2269-12 (7309)	Sutherland	22.92	1.74	6.32	15.74	0.95	45.32
07PAYT13-05	2269-14 (7335)	Sutherland	22.83	1.50	7.23	15.82	0.50	46.14
07PAYT13-06	2348-2 (7318)	Sutherland	22.52	1.59	6.44	15.30	0.38	42.96
07PAYT13-07	2348-13 (7325)	Sutherland	22.03	1.58	6.82	15.97	0.48	45.43
07PAYT13-08	2348-15 (7308)	Sutherland	22.48	1.60	6.68	15.33	0.77	45.45
07PAYT13-09	2347-5 (7314)	Sutherland	21.55	1.64	6.64	16.09	0.60	44.80
07PAYT13-10	2404-5 (7303)	Sutherland	19.94	1.60	6.14	16.07	0.84	46.07
07PAYT13-11	2404-11 (7310)	Sutherland	20.93	1.51	6.39	15.91	0.73	45.11
07PAYT13-12	2404-15 (7323)	Sutherland	22.73	1.36	6.62	16.16	0.83	46.40
07PAYT13-13	2404-16 (7313)	Sutherland	19.91	1.61	5.99	15.76	0.50	46.85
07PAYT13-14	2404-19 (7334)	Sutherland	20.78	1.32	7.12	16.32	0.69	44.86
07PAYT13-15	2342-4 (7332)	Sutherland	20.14	1.49	6.61	16.09	0.70	46.34
07PAYT13-16	2342-8 (7336)	Sutherland	20.81	1.52	6.39	15.84	0.85	46.57
07PAYT13-17	2369-5 (7306)	Sutherland	21.86	1.40	6.51	15.97	0.62	45.41
07PAYT13-18	2369-6 (7315)	Sutherland	22.15	1.66	6.76	16.46	0.90	46.45
07PAYT13-19	2369-8 (7329)	Sutherland	23.03	1.40	6.74	17.01	0.65	42.74
07PAYT13-20	2344-1 (7305)	Sutherland	22.33	1.62	6.63	16.17	0.83	44.46
07PAYT13-21	2344-7 (7326)	Sutherland	22.38	1.63	6.71	16.05	0.64	44.00
07PAYT13-22	2335-1 (7316)	Sutherland	22.07	1.65	6.62	16.24	0.61	43.99
07PAYT13-23	2477-1 (7302)	Sutherland	22.74	1.60	6.64	15.94	0.82	44.78

07PAYT13-24	2477-10 (7328)	Sutherland	22.78	1.46	6.82	16.08	0.53	43.51
07PAYT13-25	2501-1 (7322)	Sutherland	23.39	1.31	6.95	16.51	0.54	42.37
07PAYT13-26	2366-1 (7333)	Sutherland	21.43	1.50	6.67	16.06	0.62	44.53
07PAYT13-27	2366-7 (7307)	Sutherland	23.35	1.44	6.32	15.68	0.88	44.76
07PAYT13-28	2366-8 (7327)	Sutherland	21.51	1.60	6.42	16.13	1.02	44.17
07PAYT13-29	2506-1 (7324)	Sutherland	22.02	1.45	6.69	16.12	0.56	43.08
07PAYT13-30	2506-5 (7311)	Sutherland	21.79	1.40	6.61	15.89	0.62	46.01
07PAYT13-31	2507-25 (7319)	Sutherland	21.00	1.59	6.13	15.53	0.65	43.90
07PAYT13-32	2336-1 (7330)	Sutherland	22.21	1.51	6.98	16.68	0.72	44.49
07PAYT13-33	2402-5 (7304)	Sutherland	21.38	1.52	7.02	15.71	0.91	44.18
07PAYT13-34	2402-8 (7312)	Sutherland	21.43	1.68	5.97	15.15	1.04	43.47
07PAYT13-35	2293-16 (7301)	Sutherland	20.53	1.69	6.46	15.69	0.48	44.49
07PAYT13-36	2293-17 (7321)	Sutherland	20.99	1.74	6.03	15.38	0.73	44.87
07PAYT14-01	Cutlass (7925)	Sutherland	19.42	1.73	6.18	16.52	0.54	48.11
07PAYT14-02	CDC Striker (7930)	Sutherland	22.12	1.79	6.15	15.84	0.94	46.45
07PAYT14-03	CDC Sage (7934)	Sutherland	20.14	1.76	6.38	15.70	0.89	44.23
07PAYT14-04	2399-3 (7920)	Sutherland	22.45	1.72	6.30	14.81	0.72	42.57
07PAYT14-05	2399-12 (7904)	Sutherland	21.94	1.64	5.87	15.48	0.93	43.59
07PAYT14-06	2399-18 (7924)	Sutherland	20.68	1.72	6.76	15.36	0.68	43.90
07PAYT14-07	2399-20 (7902)	Sutherland	21.34	1.74	6.53	15.50	0.55	44.88
07PAYT14-08	2290-1 (7931)	Sutherland	21.54	1.75	6.85	14.67	0.56	42.39
07PAYT14-09	2290-4 (7906)	Sutherland	21.46	1.59	6.44	16.42	0.82	45.46
07PAYT14-10	2290-6 (7935)	Sutherland	22.76	1.61	6.96	15.14	0.54	42.11
07PAYT14-11	2459-14 (7901)	Sutherland	21.38	1.69	6.21	14.86	0.63	42.01
07PAYT14-12	2292-21 (7928)	Sutherland	18.46	1.75	6.16	15.47	0.84	44.87
07PAYT14-13	2292-30 (7922)	Sutherland	20.36	1.75	6.52	15.34	0.59	49.40
07PAYT14-14	2406-3 (7907)	Sutherland	22.51	1.35	6.62	15.66	0.80	41.03
07PAYT14-15	2406-10 (7911)	Sutherland	19.16	1.79	6.48	15.48	0.74	45.27
07PAYT14-16	2406-12 (7923)	Sutherland	20.31	1.62	6.24	15.79	0.81	44.77
07PAYT14-17	2406-13 (7909)	Sutherland	22.45	1.53	6.60	15.53	0.62	42.60
07PAYT14-18	2406-14 (7926)	Sutherland	20.86	1.55	6.21	15.18	0.69	43.50
07PAYT14-19	2406-20 (7932)	Sutherland	20.36	1.55	6.24	15.21	1.02	43.85
07PAYT14-20	2318-1 (7919)	Sutherland	19.37	1.89	5.53	14.88	0.63	45.33
07PAYT14-21	2241-3 (7917)	Sutherland	19.43	1.73	6.20	15.90	1.03	46.30
07PAYT14-22	2473-2 (7912)	Sutherland	20.44	1.62	6.01	15.55	0.69	45.38

07PAYT14-23	2473-5 (7927)	Sutherland	20.62	1.61	6.54	16.60	0.82	45.95
07PAYT14-24	2270-3 (7921)	Sutherland	20.92	1.81	6.68	15.32	0.83	44.00
07PAYT14-25	2270-6 (7936)	Sutherland	22.39	1.68	7.09	15.65	0.48	43.52
07PAYT14-26	2270-11 (7915)	Sutherland	21.50	1.68	6.85	15.42	0.80	43.86
07PAYT14-27	2270-15 (7903)	Sutherland	20.59	1.73	6.54	15.05	0.63	43.04
07PAYT14-28	2297-12 (7918)	Sutherland	19.55	1.80	6.38	15.29	0.66	44.99
07PAYT14-29	2297-35 (7913)	Sutherland	20.68	1.63	6.56	15.38	0.60	44.77
07PAYT14-30	2298-7 (7916)	Sutherland	20.03	1.79	6.52	15.37	0.60	43.85
07PAYT14-31	2400-17 (7910)	Sutherland	22.20	1.68	6.31	15.52	0.75	44.04
07PAYT14-32	2400-20 (7905)	Sutherland	20.12	1.84	6.07	14.86	0.73	42.22
07PAYT14-33	2294-21 (7929)	Sutherland	19.91	1.97	6.27	15.23	0.72	44.38
07PAYT14-34	2294-42 (7933)	Sutherland	21.10	1.90	6.10	14.52	0.66	42.22
07PAYT14-35	2291-10 (7914)	Sutherland	22.20	1.77	6.30	15.16	0.72	43.26
07PAYT14-36	2291-13 (7908)	Sutherland	21.39	2.02	6.12	15.15	0.81	42.76
07PAYT15-01	Cutlass (8509)	Sutherland	19.39	1.74	6.07	15.87	0.65	48.23
07PAYT15-02	CDC Striker (8535)	Sutherland	21.40	1.82	6.24	15.23	1.04	47.07
07PAYT15-03	CDC Sager (8533)	Sutherland	21.47	1.68	6.24	14.82	0.90	44.32
07PAYT15-04	2291-20 (8501)	Sutherland	22.15	1.69	6.83	15.59	0.69	42.84
07PAYT15-05	2291-23 (8520)	Sutherland	22.24	1.76	6.52	14.83	0.71	45.13
07PAYT15-06	2403-4 (8505)	Sutherland	21.49	1.77	6.68	15.71	0.77	44.62
07PAYT15-07	2403-10 (8513)	Sutherland	20.80	1.85	6.74	15.78	0.55	46.71
07PAYT15-08	2403-20 (8526)	Sutherland	21.38	1.73	6.99	16.23	0.83	43.94
07PAYT15-09	2299-4 (8504)	Sutherland	20.90	1.69	6.45	15.72	0.72	43.87
07PAYT15-10	2475-12 (8531)	Sutherland	24.11	1.38	6.72	15.76	0.75	42.56
07PAYT15-11	2321-1 (8519)	Sutherland	20.88	1.74	6.33	16.19	0.95	44.59
07PAYT15-12	2471-1 (8528)	Sutherland	20.92	1.67	6.61	15.74	0.86	43.22
07PAYT15-13	2471-3 (8503)	Sutherland	20.33	1.82	6.63	14.84	0.90	43.40
07PAYT15-14	2476-4 (8534)	Sutherland	21.31	1.68	6.12	15.22	0.73	45.25
07PAYT15-15	2467-2 (8512)	Sutherland	20.52	1.45	6.33	16.23	0.87	44.37
07PAYT15-16	2341-17 (8510)	Sutherland	19.25	1.87	5.72	15.75	0.91	46.52
07PAYT15-17	2476-9 (8523)	Sutherland	19.21	1.79	6.34	16.13	0.53	47.99
07PAYT15-18	2322-5 (8536)	Sutherland	19.57	1.77	6.47	16.88	0.43	47.37
07PAYT15-19	2336-8 (8508)	Sutherland	21.33	1.58	6.48	15.91	0.71	46.65
07PAYT15-20	2336-11 (8529)	Sutherland	21.68	1.60	6.70	16.55	0.83	43.48
07PAYT15-21	2342-39 (8521)	Sutherland	21.20	1.57	6.29	15.92	0.57	44.73

07PAYT15-22	2403-41 (8525)	Sutherland	20.65	1.82	6.33	16.54	0.54	47.20
07PAYT15-23	2403-45 (8511)	Sutherland	19.95	1.88	6.62	15.53	0.62	46.11
07PAYT15-24	2400-34 (8517)	Sutherland	21.00	1.70	6.23	15.39	0.95	45.62
07PAYT15-25	2400-38 (8515)	Sutherland	20.57	1.78	6.00	15.77	0.65	48.57
07PAYT15-26	2475-15 (8532)	Sutherland	19.45	1.55	6.17	16.73	0.81	47.13
07PAYT15-27	2475-16 (8518)	Sutherland	20.70	1.75	6.07	15.77	0.84	44.90
07PAYT15-28	2475-20 (8502)	Sutherland	19.56	1.78	5.97	15.85	0.87	46.79
07PAYT15-29	2475-21 (8514)	Sutherland	19.27	1.84	6.18	16.04	0.77	46.92
07PAYT15-30	2475-22 (8522)	Sutherland	18.92	1.66	5.74	16.78	1.00	47.16
07PAYT15-31	2404-26 (8506)	Sutherland	20.18	1.57	6.06	15.55	0.72	48.84
07PAYT15-32	2404-33 (8527)	Sutherland	20.98	1.75	6.24	16.08	0.30	46.70
07PAYT15-33	2404-37 (8516)	Sutherland	20.21	1.71	5.55	15.74	0.93	47.54
07PAYT15-34	2402-9 (8524)	Sutherland	18.56	1.87	5.91	16.26	1.01	46.65
07PAYT15-35	2337-6 (8507)	Sutherland	19.72	1.70	6.09	16.77	0.64	47.12
07PAYT15-36	2337-7 (8530)	Sutherland	19.05	1.87	6.00	16.77	0.85	46.54
07PAYT16-01	Cutlass (9104)	Sutherland	19.12	1.89	5.85	15.68	0.87	48.49
07PAYT16-02	CDC Striker (9135)	Sutherland	21.52	1.84	6.07	14.89	0.94	42.66
07PAYT16-03	CDC Dundurn (9132)	Sutherland	21.17	1.69	6.98	17.26	0.65	42.61
07PAYT16-04	2337-12 (9101)	Sutherland	19.83	1.76	6.32	16.11	0.92	47.26
07PAYT16-05	2471-9 (9129)	Sutherland	19.96	1.69	6.10	16.11	0.52	45.45
07PAYT16-06	2471-11 (9114)	Sutherland	19.74	2.02	5.92	14.92	0.80	45.56
07PAYT16-07	2471-12 (9133)	Sutherland	20.47	1.95	5.67	16.04	0.73	46.75
07PAYT16-08	2471-13 (9121)	Sutherland	19.32	1.80	5.74	15.71	0.83	45.98
07PAYT16-09	2318-25 (9103)	Sutherland	18.34	1.89	5.75	15.55	0.76	46.02
07PAYT16-10	2472-8 (9113)	Sutherland	20.70	1.72	6.77	16.40	0.49	46.65
07PAYT16-11	2472-9 (9128)	Sutherland	19.59	1.81	5.94	16.07	0.88	46.69
07PAYT16-12	2472-13 (9123)	Sutherland	20.60	1.58	6.54	17.27	0.52	46.48
07PAYT16-13	2472-15 (9112)	Sutherland	18.48	1.83	5.88	16.69	0.87	45.96
07PAYT16-14	2472-18 (9117)	Sutherland	20.39	1.69	6.64	16.43	0.93	45.00
07PAYT16-15	2477-16 (9124)	Sutherland	19.77	1.73	5.82	15.48	0.82	46.47
07PAYT16-16	2366-12 (9136)	Sutherland	19.65	1.90	6.10	15.23	0.42	44.29
07PAYT16-17	2366-16 (9110)	Sutherland	20.21	1.88	6.15	15.63	0.58	46.15
07PAYT16-18	2244-8 (9115)	Sutherland	20.60	1.70	7.12	17.68	0.74	42.45
07PAYT16-19	2244-9 (9108)	Sutherland	19.63	1.76	5.87	16.81	0.41	45.75
07PAYT16-20	2244-10 (9106)	Sutherland	20.81	1.73	6.55	17.31	0.48	43.95

07PAYT16-21	2244-11 (9126)	Sutherland	19.97	1.72	6.41	16.77	0.60	45.37
07PAYT16-22	2498-5 (9119)	Sutherland	20.48	1.47	6.49	17.22	0.76	45.46
07PAYT16-23	2498-6 (9102)	Sutherland	19.38	1.60	6.47	15.67	0.80	44.23
07PAYT16-24	2246-6 (9105)	Sutherland	19.98	1.45	6.88	16.83	0.68	44.29
07PAYT16-25	2246-7 (9134)	Sutherland	20.38	1.37	6.95	17.19	0.88	42.62
07PAYT16-26	2246-7 (9134)	Sutherland	19.79	1.67	6.52	16.10	0.55	46.21
07PAYT16-27	2246-10 (9116)	Sutherland	20.32	1.75	6.43	16.48	0.34	46.25
07PAYT16-28	2246-12 (9118)	Sutherland	18.49	1.53	6.71	16.68	0.58	46.26
07PAYT16-29	2499-4 (9125)	Sutherland	21.69	1.59	7.00	16.53	0.43	41.93
07PAYT16-30	2499-5 (9127)	Sutherland	21.59	1.89	6.19	16.29	0.65	45.48
07PAYT16-31	2252-5 (9120)	Sutherland	20.21	1.12	7.03	17.26	0.67	43.09
07PAYT16-32	2250-9 (9107)	Sutherland	19.92	1.62	7.01	16.61	0.41	41.73
07PAYT16-33	2338-6 (9131)	Sutherland	20.35	1.45	6.80	16.10	0.54	43.77
07PAYT16-34	2338-6 (9131)	Sutherland	18.62	1.37	6.96	16.46	0.52	45.19
07PAYT16-35	2251-8 (9111)	Sutherland	19.85	1.34	6.83	16.31	1.00	45.57
07PAYT16-36	2242-5 (9109)	Sutherland	20.97	1.39	6.72	16.17	0.27	42.83
07PAYT17-01	Cutlass (133)	Sutherland	19.76	1.63	6.27	16.65	0.62	47.79
07PAYT17-02	Eclipse (136)	Sutherland	19.95	1.68	5.77	15.28	0.76	45.41
07PAYT17-03	CDC Meadow (113)	Sutherland	20.81	1.67	6.35	16.41	0.51	46.89
07PAYT17-04	CDC Mozart (101)	Sutherland	18.57	1.78	6.45	15.84	0.40	45.98
07PAYT17-05	SW229-502 (120)	Sutherland	19.62	1.77	6.22	15.74	0.73	46.12
07PAYT17-06	SW229-505 (116)	Sutherland	18.02	1.68	6.03	16.77	0.71	48.22
07PAYT17-07	SW229-509 (131)	Sutherland	18.46	1.66	5.85	16.54	0.84	47.60
07PAYT17-08	SW230-510 (106)	Sutherland	20.45	1.65	5.89	15.89	0.70	48.71
07PAYT17-09	SW231-514 (117)	Sutherland	20.79	1.65	5.76	16.06	0.56	47.89
07PAYT17-10	SW233-527 (115)	Sutherland	18.22	1.82	6.05	16.20	0.87	47.13
07PAYT17-11	SW236-532 (103)	Sutherland	19.93	1.59	5.95	16.45	0.73	47.06
07PAYT17-12	SW236-533 (127)	Sutherland	20.32	1.76	5.86	16.31	0.84	45.42
07PAYT17-13	SW237-537 (109)	Sutherland	18.65	1.97	6.11	16.01	0.68	49.10
07PAYT17-14	SW238-543 (132)	Sutherland	21.19	1.75	6.00	15.64	0.52	47.76
07PAYT17-15	SW238-544 (105)	Sutherland	17.40	1.84	6.18	17.23	0.63	50.06
07PAYT17-16	SW239-546 (125)	Sutherland	19.68	1.77	5.80	16.21	0.79	47.53
07PAYT17-17	SW240-551 (121)	Sutherland	20.31	1.89	6.15	15.42	0.70	46.06
07PAYT17-18	SW242-561 (119)	Sutherland	19.85	1.79	6.27	15.46	0.58	47.08
07PAYT17-19	SW246-568 (112)	Sutherland	18.22	1.50	5.96	16.34	1.04	46.31

07PAYT17-20	SW248-573 (104)	Sutherland	20.41	1.83	5.76	15.56	0.85	46.14
07PAYT17-21	SW251-580 (108)	Sutherland	22.23	1.73	6.28	15.29	0.36	44.13
07PAYT17-22	SW03-705 (130)	Sutherland	22.11	1.71	6.57	15.25	0.87	42.24
07PAYT17-23	SW03-741 (128)	Sutherland	17.90	1.78	6.12	16.64	0.59	50.93
07PAYT17-24	SW03-754 (111)	Sutherland	19.44	1.81	5.77	15.55	0.66	45.32
07PAYT17-25	SW03-846 (118)	Sutherland	18.58	1.90	5.81	15.54	0.63	48.58
07PAYT17-26	SW03-873 (122)	Sutherland	20.51	1.67	6.15	16.53	0.78	47.86
07PAYT17-27	SW03-874 (126)	Sutherland	20.17	1.73	5.86	15.64	0.18	45.75
07PAYT17-28	SW03-881 (129)	Sutherland	19.37	1.83	5.72	16.61	0.69	48.44
07PAYT17-29	SW03-888 (102)	Sutherland	20.82	1.51	6.03	15.66	0.13	46.22
07PAYT17-30	SW03-890 (107)	Sutherland	19.78	1.81	5.92	15.49	0.44	46.60
07PAYT17-31	SW03-897 (134)	Sutherland	21.47	1.78	5.72	15.73	0.55	46.21
07PAYT17-32	SW03-919 (124)	Sutherland	19.16	1.85	5.74	16.12	0.97	47.91
07PAYT17-33	SW03-925 (110)	Sutherland	19.58	1.65	6.03	17.63	0.62	45.86
07PAYT17-34	SW03-929 (114)	Sutherland	20.07	1.94	5.72	16.23	0.50	46.73
07PAYT17-35	SW03-930 (123)	Sutherland	21.24	1.55	5.91	16.56	0.44	44.27
07PAYT17-36	SW03-933 (135)	Sutherland	19.81	1.88	5.91	15.61	0.81	47.40
07PAYT18-01	Cutlass (729)	Sutherland	20.24	1.75	6.07	15.50	0.21	48.15
07PAYT18-02	Eclipse (711)	Sutherland	21.21	1.85	5.79	14.25	0.77	46.92
07PAYT18-03	CDC Meadow (706)	Sutherland	19.28	1.66	6.05	15.78	0.65	47.15
07PAYT18-04	CDC Mozart (701)	Sutherland	19.53	1.72	6.10	15.51	0.55	47.43
07PAYT18-05	SW03-947 (718)	Sutherland	20.26	1.46	6.06	15.59	0.50	44.67
07PAYT18-06	SW04-703 (709)	Sutherland	22.93	1.62	6.53	15.52	0.62	46.20
07PAYT18-07	SW04-712 (723)	Sutherland	19.46	1.70	5.70	15.38	0.80	46.41
07PAYT18-08	SW04-714 (714)	Sutherland	18.47	1.70	5.67	16.12	0.76	46.19
07PAYT18-09	SW04-775 (712)	Sutherland	21.66	1.73	5.84	15.44	0.64	46.72
07PAYT18-10	SW04-792 (705)	Sutherland	21.85	1.63	6.02	15.44	0.55	46.07
07PAYT18-11	SW04-903 (730)	Sutherland	18.87	2.19	6.05	15.24	0.82	46.67
07PAYT18-12	SW04-918 (715)	Sutherland	17.41	2.31	5.78	14.52	0.96	46.15
07PAYT18-13	SW05-706 (732)	Sutherland	18.37	1.77	6.27	14.89	0.84	47.54
07PAYT18-14	SW05-709 (719)	Sutherland	18.51	1.72	6.29	15.60	0.78	48.70
07PAYT18-15	SW05-710 (736)	Sutherland	20.11	1.78	6.28	15.29	1.21	44.76
07PAYT18-16	SW05-711 (708)	Sutherland	18.92	1.66	6.16	16.37	1.18	46.33
07PAYT18-17	SW05-713 (722)	Sutherland	19.04	1.80	6.00	15.72	0.74	49.22
07PAYT18-18	SW05-719 (726)	Sutherland	18.11	1.86	6.34	15.54	0.90	47.37

07PAYT18-19	SW05-722 (734)	Sutherland	20.52	1.77	6.51	16.17	1.18	46.07
07PAYT18-20	SW05-724 (731)	Sutherland	18.64	1.94	6.08	15.26	0.91	44.29
07PAYT18-21	SW05-728 (725)	Sutherland	20.09	1.71	6.13	16.54	0.83	45.81
07PAYT18-22	SW05-733 (703)	Sutherland	18.52	1.98	6.06	15.71	0.93	44.51
07PAYT18-23	SW05-736 (713)	Sutherland	19.52	2.02	5.93	15.20	0.89	45.74
07PAYT18-24	SW05-737 (720)	Sutherland	21.66	1.69	5.70	15.65	0.72	48.92
07PAYT18-25	SW05-741 (702)	Sutherland	22.36	1.85	6.39	14.79	0.88	44.38
07PAYT18-26	SW05-747 (733)	Sutherland	22.42	1.65	6.55	14.85	0.68	43.01
07PAYT18-27	SW05-748 (724)	Sutherland	21.08	1.89	6.57	14.97	0.39	43.68
07PAYT18-28	SW05-760(717)	Sutherland	21.93	1.92	5.84	15.32	0.63	42.12
07PAYT18-29	SW05-761 (721)	Sutherland	18.61	1.76	6.22	15.67	0.68	48.44
07PAYT18-30	SW05-763 (735)	Sutherland	21.65	1.93	6.21	15.64	0.91	44.40
07PAYT18-31	SW05-765 (728)	Sutherland	20.35	1.83	5.88	15.21	0.42	45.10
07PAYT18-32	SW05-766 (704)	Sutherland	18.15	1.97	6.34	15.12	1.00	48.28
07PAYT18-33	SW05-770 (707)	Sutherland	20.81	1.80	6.25	15.35	0.92	44.61
07PAYT18-34	SW05-774 (710)	Sutherland	20.81	2.04	5.86	14.71	0.60	45.79
07PAYT18-35	SW05-778 (716)	Sutherland	20.82	1.87	6.62	14.98	0.78	45.67
07PAYT18-36	SW05-728 (727)	Sutherland	19.96	2.09	6.20	15.18	0.71	45.83
07PAYT19-01	Cutlass (1307)	Sutherland	20.13	1.74	6.40	16.18	0.79	46.87
07PAYT19-02	Eclipse (1311)	Sutherland	20.85	1.57	6.36	15.76	0.87	46.33
07PAYT19-03	CDC Striker (1317)	Sutherland	22.60	1.76	6.49	14.99	0.81	43.00
07PAYT19-04	CDC Sage (1304)	Sutherland	19.66	1.61	6.52	15.60	1.07	45.08
07PAYT19-05	SW05-783 (1309)	Sutherland	23.07	1.74	6.72	15.36	0.92	42.60
07PAYT19-06	SW04-570 (1310)	Sutherland	19.85	1.60	6.22	15.95	1.10	48.60
07PAYT19-07	SW04-590 (1302)	Sutherland	21.45	1.68	6.36	16.08	0.67	45.16
07PAYT19-08	SW04-593 (1312)	Sutherland	21.78	1.56	6.10	15.22	0.80	45.66
07PAYT19-09	SW04-596 (1315)	Sutherland	23.05	1.70	6.34	15.37	0.43	44.59
07PAYT19-10	SW04-598 (1308)	Sutherland	19.23	1.78	6.08	15.71	0.90	48.35
07PAYT19-11	SW04-599 (1313)	Sutherland	20.86	1.69	6.28	15.73	0.93	46.02
07PAYT19-12	SW04-604 (1318)	Sutherland	21.73	1.68	6.28	15.12	0.82	43.47
07PAYT19-13	SW04-605 (1301)	Sutherland	18.97	1.69	6.47	15.67	0.82	47.47
07PAYT19-14	SW04-608 (1305)	Sutherland	20.31	1.42	7.07	16.26	1.04	46.22
07PAYT19-15	SW04-609 (1316)	Sutherland	20.22	1.95	6.28	15.06	0.87	48.21
07PAYT19-16	SW04-620 (1303)	Sutherland	21.13	1.40	6.97	15.93	0.62	42.24
07PAYT19-17	SW04-622 (1314)	Sutherland	23.57	1.79	6.41	15.27	0.86	42.50

07PAYT19-18	SW230-511 (1306)	Sutherland	19.08	1.77	6.22	15.44	0.89	47.78
07PAYT01-01	Cutlass (215)	Rosthern	18.23	2.05	5.91	14.01	0.58	44.83
07PAYT01-02	Eclipse (208)	Rosthern	17.87	2.04	5.79	14.01	0.97	45.67
07PAYT01-03	CDC Meadow (235)	Rosthern	17.07	1.82	5.98	15.30	1.25	47.01
07PAYT01-04	2478-7 (201)	Rosthern	18.90	1.72	5.56	14.44	1.00	45.22
07PAYT01-05	2478-9 (232)	Rosthern	17.06	1.91	5.70	15.02	1.02	47.93
07PAYT01-06	2486-4 (220)	Rosthern	18.18	1.85	6.07	14.63	0.90	44.72
07PAYT01-07	2487-6 (228)	Rosthern	17.53	1.79	5.99	14.92	1.20	47.37
07PAYT01-08	2261-1 (224)	Rosthern	17.17	2.02	6.33	14.54	0.94	44.76
07PAYT01-09	2491-8 (206)	Rosthern	19.81	1.88	5.91	14.39	0.81	45.49
07PAYT01-10	2248-8 (203)	Rosthern	18.28	2.18	5.56	13.94	0.60	44.53
07PAYT01-11	2396-2 (217)	Rosthern	18.05	2.00	5.78	14.54	0.99	46.60
07PAYT01-12	2492-8 (223)	Rosthern	17.37	1.83	6.06	15.10	0.93	45.80
07PAYT01-13	2303-4 (204)	Rosthern	16.88	1.92	5.41	14.57	0.99	49.64
07PAYT01-14	2363-4 (213)	Rosthern	19.03	1.67	6.01	15.72	1.25	43.52
07PAYT01-15	2363-5 (207)	Rosthern	17.56	2.02	5.70	14.87	1.22	45.81
07PAYT01-16	2363-6 (231)	Rosthern	18.85	1.82	5.76	14.51	0.94	43.89
07PAYT01-17	2363-7 (210)	Rosthern	19.71	1.77	5.80	15.09	1.06	43.75
07PAYT01-18	2363-9 (227)	Rosthern	18.82	1.74	5.92	15.02	0.88	44.28
07PAYT01-19	2363-13 (218)	Rosthern	19.73	1.85	5.77	14.73	0.91	43.64
07PAYT01-20	2363-21 (233)	Rosthern	18.26	1.88	5.91	14.09	0.76	43.29
07PAYT01-21	2296-21 (236)	Rosthern	18.43	2.03	6.05	14.61	0.98	46.52
07PAYT01-22	2485-3 (211)	Rosthern	19.51	1.86	5.63	13.89	0.77	44.13
07PAYT01-23	2392-4 (202)	Rosthern	17.00	2.15	5.76	14.52	0.90	46.41
07PAYT01-24	2392-5 (209)	Rosthern	19.37	1.86	5.89	14.48	0.89	43.41
07PAYT01-25	2392-9 (214)	Rosthern	16.56	1.82	5.75	14.35	1.02	47.75
07PAYT01-26	2392-13 (219)	Rosthern	17.41	1.92	5.90	14.66	0.93	45.56
07PAYT01-27	2392-18 (234)	Rosthern	17.84	2.05	5.62	14.91	1.01	44.85
07PAYT01-28	2392-25 (225)	Rosthern	19.08	1.99	6.21	14.52	0.67	45.72
07PAYT01-29	2392-38 (222)	Rosthern	16.60	2.01	5.47	14.59	0.98	46.90
07PAYT01-30	2392-41 (230)	Rosthern	19.12	2.05	5.81	14.51	0.85	44.60
07PAYT01-31	2392-51 (212)	Rosthern	17.64	1.88	5.45	14.93	0.96	46.03
07PAYT01-32	2392-55 (221)	Rosthern	18.76	1.87	5.99	14.76	1.03	43.27
07PAYT01-33	2392-59 (205)	Rosthern	19.33	1.85	5.81	14.27	0.79	45.95
07PAYT01-34	2392-60 (226)	Rosthern	18.73	1.98	5.97	14.01	0.77	45.68

07PAYT01-35	2392-61 (229)	Rosthern	18.75	2.23	5.77	14.24	0.84	46.39
07PAYT01-36	2254-3 (216)	Rosthern	18.97	2.13	5.35	14.66	0.95	42.61
07PAYT02-01	Cutlass (829)	Rosthern	19.68	1.74	6.46	15.05	1.21	47.03
07PAYT02-02	Eclipse (813)	Rosthern	19.34	1.60	6.29	14.90	0.96	46.55
07PAYT02-03	CDC Meadow (802)	Rosthern	18.51	1.70	6.20	15.27	0.86	48.51
07PAYT02-04	2480-4 (830)	Rosthern	21.01	1.37	6.48	15.94	0.77	46.55
07PAYT02-05	2283-1 (809)	Rosthern	18.39	1.28	6.10	15.56	1.17	45.29
07PAYT02-06	2283-3 (801)	Rosthern	19.90	1.70	6.26	15.20	1.08	49.58
07PAYT02-07	2283-17 (817)	Rosthern	20.69	1.39	6.64	16.35	1.25	47.14
07PAYT02-08	2283-19 (803)	Rosthern	19.45	1.45	5.97	15.14	1.02	47.03
07PAYT02-09	2283-20 (835)	Rosthern	19.42	1.39	5.80	15.04	0.55	44.87
07PAYT02-10	2283-23 (833)	Rosthern	19.10	1.16	6.17	16.05	1.47	51.35
07PAYT02-11	2283-25 (828)	Rosthern	18.98	1.68	6.22	14.69	0.91	47.14
07PAYT02-12	2283-28 (814)	Rosthern	18.01	1.59	6.37	15.29	1.23	49.99
07PAYT02-13	2283-33 (811)	Rosthern	21.39	1.55	6.19	15.68	0.84	45.82
07PAYT02-14	2283-36 (819)	Rosthern	20.08	1.14	6.49	15.73	1.09	50.02
07PAYT02-15	2381-7 (815)	Rosthern	20.01	1.39	6.19	15.09	1.02	47.73
07PAYT02-16	2381-12(825)	Rosthern	19.38	1.54	6.05	15.77	1.26	49.37
07PAYT02-17	2240-2(804)	Rosthern	19.25	0.91	6.47	16.97	1.12	49.80
07PAYT02-18	2468-6(831)	Rosthern	20.15	1.45	6.24	14.74	0.80	48.38
07PAYT02-19	2468-15(823)	Rosthern	19.57	1.47	6.03	14.83	1.16	46.63
07PAYT02-20	2361-1(818)	Rosthern	18.75	1.61	5.86	15.12	1.13	47.95
07PAYT02-21	2361-4(806)	Rosthern	19.96	1.66	6.11	14.36	0.71	45.55
07PAYT02-22	2331-4(816)	Rosthern	19.78	1.61	6.14	15.33	1.14	48.20
07PAYT02-23	2320-3(820)	Rosthern	22.48	1.37	6.39	15.21	0.69	47.28
07PAYT02-24	2353-4 (808)	Rosthern	20.59	1.55	6.51	15.47	0.91	48.52
07PAYT02-25	2353-17 (836)	Rosthern	18.53	1.43	6.39	14.56	0.40	46.12
07PAYT02-26	2364-4 (805)	Rosthern	19.72	1.14	6.41	16.15	1.05	49.55
07PAYT02-27	2364-14 (832)	Rosthern	18.82	1.67	5.88	14.96	1.08	46.78
07PAYT02-28	2362-8 (824)	Rosthern	17.81	1.57	5.77	14.96	1.03	48.67
07PAYT02-29	2390-6 (812)	Rosthern	21.21	1.54	5.76	15.37	0.78	46.23
07PAYT02-30	2390-14 (810)	Rosthern	18.68	1.59	5.86	15.30	1.06	49.66
07PAYT02-31	2390-17(822)	Rosthern	20.80	1.49	5.86	15.62	0.83	44.36
07PAYT02-32	2390-18(826)	Rosthern	20.10	1.36	6.00	15.68	1.10	48.63
07PAYT02-33	2390-28(834)	Rosthern	18.45	1.76	6.19	15.16	1.06	45.44

07PAYT02-34	2390-48(821)	Rosthern	18.97	1.17	6.34	16.50	1.33	51.19
07PAYT02-35	2390-62(807)	Rosthern	18.93	1.73	5.92	14.91	0.88	45.20
07PAYT02-36	2390-67(827)	Rosthern	19.46	1.46	5.90	15.42	1.12	48.21
07PAYT03-01	Cutlass (1412)	Rosthern	19.58	1.87	6.28	14.70	0.80	47.24
07PAYT03-02	Eclipse (1431)	Rosthern	18.76	1.87	5.95	14.26	0.58	46.25
07PAYT03-03	CDC Meadow (1415)	Rosthern	18.32	1.68	5.93	15.20	0.93	46.44
07PAYT03-04	2390-70 (1411)	Rosthern	20.82	1.79	6.12	14.65	0.86	45.12
07PAYT03-05	2390-93 (1436)	Rosthern	19.42	1.90	5.90	15.13	0.97	45.85
07PAYT03-06	2390-94 (1413)	Rosthern	21.05	1.65	6.21	15.44	0.79	44.56
07PAYT03-07	2389-6 (1404)	Rosthern	18.23	1.85	6.11	15.38	1.20	45.04
07PAYT03-08	2389-8 (1434)	Rosthern	20.14	1.86	6.23	14.56	0.72	43.69
07PAYT03-09	2389-16 (1432)	Rosthern	18.85	1.72	6.22	15.44	1.02	47.20
07PAYT03-10	2389-30 (1426)	Rosthern	20.17	1.67	6.48	15.35	0.69	47.27
07PAYT03-11	2389-36 (1402)	Rosthern	19.65	1.50	6.03	15.18	0.83	46.23
07PAYT03-12	2259-5 (1407)	Rosthern	20.28	1.67	6.09	16.02	0.95	48.03
07PAYT03-13	2259-7 (1410)	Rosthern	18.82	1.67	6.36	15.68	0.96	47.95
07PAYT03-14	2259-9 (1414)	Rosthern	19.23	1.89	5.59	14.61	0.75	45.82
07PAYT03-15	2259-13 (1421)	Rosthern	18.89	1.75	6.28	15.24	0.92	47.93
07PAYT03-16	2259-15 (1428)	Rosthern	20.62	2.04	5.63	14.24	0.76	44.70
07PAYT03-17	2259-17 (1401)	Rosthern	18.69	1.92	5.78	14.63	0.92	48.11
07PAYT03-18	2274-1 (1409)	Rosthern	20.09	2.02	5.79	14.95	0.79	47.94
07PAYT03-19	2274-4 (1403)	Rosthern	20.09	1.87	5.89	15.16	0.93	48.50
07PAYT03-20	2274-7 (1427)	Rosthern	19.08	1.81	5.76	15.60	1.13	46.39
07PAYT03-21	2274-8 (1419)	Rosthern	18.67	1.75	6.22	14.91	1.10	45.45
07PAYT03-22	2274-11 (1433)	Rosthern	20.80	1.81	5.97	15.09	0.89	46.00
07PAYT03-23	2279-3 (1405)	Rosthern	19.93	1.76	6.06	15.29	0.74	46.50
07PAYT03-24	2279-4 (1417)	Rosthern	19.16	1.75	6.11	15.10	1.03	46.69
07PAYT03-25	2304-6 (1425)	Rosthern	20.55	1.83	5.73	14.74	0.62	46.14
07PAYT03-26	2304-7 (1429)	Rosthern	19.00	1.77	5.87	14.74	0.75	46.45
07PAYT03-27	2356-12 (1418)	Rosthern	20.55	1.77	6.35	15.73	0.78	44.87
07PAYT03-28	2373-11 (1423)	Rosthern	19.58	1.74	6.00	14.98	0.58	47.55
07PAYT03-29	2373-20 (1406)	Rosthern	19.66	1.76	5.74	14.76	0.71	46.51
07PAYT03-30	2373-24(1408)	Rosthern	19.78	1.73	6.00	15.35	0.74	46.96
07PAYT03-31	2366-10(1420)	Rosthern	20.16	1.72	6.10	15.51	1.05	45.51
07PAYT03-32	2339-2(1435)	Rosthern	19.59	1.86	6.28	14.60	1.13	45.83

07PAYT03-33	2339-3(1424)	Rosthern	19.73	1.68	6.02	15.57	0.82	45.39
07PAYT03-34	2378-3(1416)	Rosthern	20.74	1.82	6.54	14.52	0.91	47.13
07PAYT03-35	2378-22 (1422)	Rosthern	21.22	1.91	5.95	14.96	0.88	45.81
07PAYT03-36	2296-1 (1430)	Rosthern	19.81	1.90	5.96	14.41	1.01	46.41
07PAYT04-01	Cutlass(2009)	Rosthern	20.59	1.35	6.70	15.42	0.76	48.76
07PAYT04-02	Eclipse(2026)	Rosthern	19.76	1.44	6.31	14.99	1.30	46.43
07PAYT04-03	CDC Meadow(2020)	Rosthern	19.29	1.50	6.50	15.61	0.87	48.80
07PAYT04-04	2296-6 (2031)	Rosthern	19.36	1.40	6.18	15.60	1.00	49.60
07PAYT04-05	2296-8 (2015)	Rosthern	18.93	1.62	6.58	15.54	1.06	48.88
07PAYT04-06	2296-18 (2007)	Rosthern	19.08	1.57	6.35	15.54	1.12	48.91
07PAYT04-07	2277-17 (2036)	Rosthern	19.55	1.55	6.07	15.08	1.24	47.84
07PAYT04-08	2277-23 (2014)	Rosthern	18.84	1.41	6.72	15.74	0.98	48.36
07PAYT04-09	2277-39 (2027)	Rosthern	19.13	1.70	6.34	15.16	1.06	48.90
07PAYT04-10	2277-41 (2034)	Rosthern	19.78	1.48	6.03	15.15	1.06	46.38
07PAYT04-11	2277-44 (2019)	Rosthern	19.84	1.60	5.96	15.71	1.18	49.01
07PAYT04-12	2275-8 (2028)	Rosthern	20.62	1.51	6.13	15.29	0.90	47.56
07PAYT04-13	2275-44 (2002)	Rosthern	19.47	1.58	6.17	15.43	1.12	47.39
07PAYT04-14	2283-39 (2006)	Rosthern	20.79	1.51	6.13	15.90	1.10	47.55
07PAYT04-15	2283-46 (2004)	Rosthern	21.30	1.81	6.75	14.96	1.09	44.09
07PAYT04-16	2283-49 (2008)	Rosthern	21.68	1.45	6.47	15.19	0.84	45.83
07PAYT04-17	2272-47(2010)	Rosthern	18.21	1.67	6.09	15.61	0.98	45.45
07PAYT04-18	2272-48(2025)	Rosthern	19.15	1.55	6.43	15.50	0.67	46.35
07PAYT04-19	2272-49(2023)	Rosthern	20.01	1.73	6.37	15.60	1.30	46.73
07PAYT04-20	2272-50(2032)	Rosthern	20.04	1.60	6.05	15.49	0.72	45.94
07PAYT04-21	2272-52(2017)	Rosthern	21.65	1.68	6.29	15.00	0.79	45.86
07PAYT04-22	2272-64(2011)	Rosthern	21.36	1.48	6.74	15.87	1.21	47.10
07PAYT04-23	2272-71 (2001)	Rosthern	20.35	1.70	6.12	15.30	0.62	47.21
07PAYT04-24	2284-8 (2018)	Rosthern	20.90	1.94	5.38	14.83	0.97	44.69
07PAYT04-25	2284-11 (2003)	Rosthern	21.85	1.11	6.58	16.76	0.98	44.98
07PAYT04-26	2284-17 (2013)	Rosthern	20.11	1.70	5.79	14.92	1.02	44.90
07PAYT04-27	2284-18 (2016)	Rosthern	18.59	1.88	6.07	14.71	0.87	49.27
07PAYT04-28	2458-7 (2024)	Rosthern	20.62	1.53	6.10	15.12	0.77	45.59
07PAYT04-29	2475-1 (2005)	Rosthern	20.44	1.50	6.06	16.06	1.04	45.63
07PAYT04-30	2475-4 (2021)	Rosthern	19.66	1.85	5.81	15.50	0.61	44.78
07PAYT04-31	2475-5 (2030)	Rosthern	18.62	1.78	6.01	15.02	1.13	49.11

07PAYT04-32	2385-8 (2033)	Rosthern	18.13	1.69	5.95	16.20	0.87	47.08
07PAYT04-33	2385-9(2022)	Rosthern	20.64	1.71	5.62	14.92	0.87	45.22
07PAYT04-34	2385-13(2029)	Rosthern	21.72	1.49	6.12	15.67	0.76	45.24
07PAYT04-35	2385-14 (2012)	Rosthern	19.77	1.80	6.22	14.81	0.93	46.20
07PAYT04-36	2385-16 (2035)	Rosthern	20.59	1.51	6.33	15.82	0.91	44.65
07PAYT05-01	Cutlass (2619)	Rosthern	19.38	1.95	6.05	14.98	0.97	44.52
07PAYT05-02	Eclipse (2601)	Rosthern	21.11	1.69	5.76	14.10	0.77	40.97
07PAYT05-03	CDC Meadow(2636)	Rosthern	17.95	1.76	5.79	15.69	1.06	48.19
07PAYT05-04	2385-17 (2603)	Rosthern	19.76	1.84	5.21	15.57	0.60	46.87
07PAYT05-05	2385-24 (2618)	Rosthern	18.20	1.94	5.50	14.59	0.86	46.32
07PAYT05-06	2385-25 (2625)	Rosthern	18.45	1.97	5.59	14.83	0.94	45.10
07PAYT05-07	2385-27 (2610)	Rosthern	16.57	1.84	6.00	15.12	1.03	47.30
07PAYT05-08	2385-32(2622)	Rosthern	17.59	1.81	5.65	15.46	1.09	44.49
07PAYT05-09	2385-33(2605)	Rosthern	18.55	1.75	5.93	16.17	0.94	47.99
07PAYT05-10	2311-2 (2620)	Rosthern	17.49	1.76	6.01	15.32	1.02	46.27
07PAYT05-11	2311-4 (2615)	Rosthern	17.77	1.90	5.77	15.32	0.80	45.80
07PAYT05-12	2311-12 (2607)	Rosthern	20.67	1.92	5.92	14.58	0.71	44.08
07PAYT05-13	2311-13 (2633)	Rosthern	20.32	1.90	5.95	15.14	0.90	44.68
07PAYT05-14	2311-16 (2604)	Rosthern	19.20	1.77	5.86	15.32	0.59	47.08
07PAYT05-15	2311-17 (2628)	Rosthern	19.08	1.92	5.78	14.68	0.81	46.67
07PAYT05-16	2385-35 (2602)	Rosthern	19.41	1.57	6.12	15.67	0.57	47.35
07PAYT05-17	2385-48 (2611)	Rosthern	18.04	1.68	6.03	15.45	0.96	46.77
07PAYT05-18	2385-59 (2613)	Rosthern	19.88	1.91	5.57	15.16	0.98	45.65
07PAYT05-19	2385-60 (2608)	Rosthern	18.78	1.83	5.68	15.05	1.18	46.31
07PAYT05-20	2385-61 (2629)	Rosthern	18.43	1.82	5.70	15.23	1.05	45.36
07PAYT05-21	2384-23 (2614)	Rosthern	17.39	1.88	6.09	14.89	0.96	46.38
07PAYT05-22	2384-24 (2634)	Rosthern	18.90	1.90	5.71	14.60	0.91	44.62
07PAYT05-23	2384-26 (2630)	Rosthern	19.60	2.02	6.24	14.70	0.81	47.38
07PAYT05-24	2312-6 (2632)	Rosthern	18.86	1.78	6.14	15.76	1.11	44.87
07PAYT05-25	2351-1 (2627)	Rosthern	18.12	1.97	5.63	15.15	1.02	45.77
07PAYT05-26	2351-3 (2609)	Rosthern	19.29	2.09	5.59	14.14	0.62	44.64
07PAYT05-27	2351-6 (2635)	Rosthern	16.99	1.75	6.29	15.90	0.81	46.86
07PAYT05-28	2351-9 (2621)	Rosthern	18.79	1.67	5.54	15.96	0.85	45.77
07PAYT05-29	2351-10 (2617)	Rosthern	18.59	1.85	5.61	15.08	0.95	44.65
07PAYT05-30	2351-11 (2606)	Rosthern	18.12	2.08	6.05	15.35	0.66	45.74

07PAYT05-31	2351-13 (2631)	Rosthern	19.37	1.97	5.63	14.57	0.92	45.77
07PAYT05-32	2351-14 (2616)	Rosthern	18.85	1.93	5.44	14.89	0.52	42.58
07PAYT05-33	2351-16 (2623)	Rosthern	18.94	1.39	6.12	15.62	0.86	49.15
07PAYT05-34	2351-17 (2612)	Rosthern	18.85	1.75	6.05	15.35	1.12	46.37
07PAYT05-35	2351-18 (2626)	Rosthern	18.03	1.75	5.79	14.95	0.79	46.66
07PAYT05-36	2351-23 (2624)	Rosthern	19.30	1.69	5.36	14.35	0.86	45.44
07PAYT06-01	Cutlass (3224)	Rosthern	19.35	1.64	6.41	15.48	0.82	45.98
07PAYT06-02	Eclipse (3214)	Rosthern	19.01	1.47	6.14	15.10	1.18	48.04
07PAYT06-03	CDC Meadow (3236)	Rosthern	18.32	1.73	5.92	14.77	0.87	46.84
07PAYT06-04	2351-25 (3210)	Rosthern	19.57	1.51	5.78	15.28	1.08	49.30
07PAYT06-05	2351-26 (3216)	Rosthern	20.42	1.52	5.40	15.62	1.17	44.62
07PAYT06-06	2358-11 (3223)	Rosthern	20.17	1.14	6.00	16.66	1.03	48.02
07PAYT06-07	2358-13 (3229)	Rosthern	19.68	1.62	5.93	15.15	0.94	46.58
07PAYT06-08	2375-9 (3202)	Rosthern	20.55	1.18	6.25	15.36	0.61	47.78
07PAYT06-09	2375-12 (3226)	Rosthern	20.47	1.47	5.93	15.69	0.96	46.62
07PAYT06-10	2375-30 (3219)	Rosthern	20.05	1.53	6.14	14.99	0.96	48.77
07PAYT06-11	2350-3 (3234)	Rosthern	18.66	1.63	5.78	15.08	1.01	46.08
07PAYT06-12	2350-5 (3211)	Rosthern	18.72	1.59	5.69	15.05	1.01	48.04
07PAYT06-13	2350-15 (3208)	Rosthern	18.61	1.20	6.54	16.05	0.98	46.57
07PAYT06-14	2376-7 (3218)	Rosthern	21.20	1.38	5.93	15.03	1.00	46.21
07PAYT06-15	2376-10 (3206)	Rosthern	18.95	1.54	6.08	14.47	0.70	47.88
07PAYT06-16	2328-1 (3225)	Rosthern	20.21	1.18	5.95	15.94	0.87	46.83
07PAYT06-17	2306-2 (3213)	Rosthern	17.90	1.55	5.74	15.61	0.77	46.23
07PAYT06-18	2306-8 (3217)	Rosthern	19.55	1.18	5.76	16.93	0.96	46.98
07PAYT06-19	2280-3 (3232)	Rosthern	19.18	1.40	5.92	15.74	1.11	46.57
07PAYT06-20	2280-11 (3222)	Rosthern	18.49	1.77	5.68	15.20	1.32	46.95
07PAYT06-21	2280-19 (3227)	Rosthern	19.28	1.62	5.91	14.89	0.99	47.67
07PAYT06-22	2280-25 (3220)	Rosthern	20.48	1.62	5.86	15.77	0.88	48.63
07PAYT06-23	2387-67 (3201)	Rosthern	19.11	1.78	6.11	14.87	0.98	46.89
07PAYT06-24	2387-68 (3205)	Rosthern	18.47	1.61	5.88	15.64	1.02	48.53
07PAYT06-25	2387-69 (3215)	Rosthern	21.03	1.45	6.25	16.26	1.00	48.01
07PAYT06-26	2306-10(3231)	Rosthern	19.87	1.42	5.91	15.63	0.98	47.78
07PAYT06-27	2357-6 (3207)	Rosthern	20.18	1.41	5.77	16.18	1.03	44.28
07PAYT06-28	2472-2 (3221)	Rosthern	20.98	1.44	6.10	16.06	1.15	47.31
07PAYT06-29	2360-5 (3209)	Rosthern	17.97	1.73	5.87	15.46	0.97	47.14

07PAYT06-30	2360-7 (3204)	Rosthern	19.94	1.60	6.13	15.32	0.76	48.96
07PAYT06-31	2360-14 (3235)	Rosthern	20.08	1.57	5.63	15.50	1.12	47.46
07PAYT06-32	2358-15 (3212)	Rosthern	18.54	1.47	5.95	15.46	1.25	46.23
07PAYT06-33	2310-4 (3228)	Rosthern	20.12	1.46	5.99	15.45	0.89	45.41
07PAYT06-34	2310-8 (3233)	Rosthern	19.72	1.75	5.99	15.30	0.91	47.18
07PAYT06-35	2310-13 (3230)	Rosthern	20.44	1.70	5.71	15.05	0.88	46.78
07PAYT06-36	2310-20 (3203)	Rosthern	18.50	1.87	5.84	15.49	1.10	47.08
07PAYT07-1	Cutlass (3832)	Rosthern	22.73	1.72	6.69	14.82	0.51	45.60
07PAYT07-2	Eclipse (3813)	Rosthern	23.91	1.37	6.83	15.94	0.78	46.45
07PAYT07-3	CDC Meadow (3818)	Rosthern	22.16	1.37	6.82	16.32	1.15	46.09
07PAYT07-4	2387-5 (3809)	Rosthern	21.78	1.54	6.55	16.10	1.16	47.11
07PAYT07-5	2332-2 (3836)	Rosthern	21.67	1.17	6.66	16.90	1.06	46.74
07PAYT07-6	2332-9 (3827)	Rosthern	22.50	1.21	6.81	16.31	1.00	46.19
07PAYT07-7	2383-1 (3830)	Rosthern	23.31	1.19	6.93	15.89	1.01	47.11
07PAYT07-8	2393-1 (3807)	Rosthern	21.26	1.35	6.77	16.12	0.72	48.67
07PAYT07-9	2393-13 (3822)	Rosthern	21.89	1.38	6.48	16.76	0.96	49.67
07PAYT07-10	2393-17 (3815)	Rosthern	21.52	1.18	6.98	16.52	0.98	48.75
07PAYT07-11	2393-27 (3833)	Rosthern	21.52	0.87	6.97	17.37	1.25	48.17
07PAYT07-12	2393-32 (3831)	Rosthern	22.35	1.52	6.77	15.84	0.58	48.44
07PAYT07-13	2393-35 (3804)	Rosthern	21.66	1.30	6.82	16.97	0.90	48.52
07PAYT07-14	2393-37 (3817)	Rosthern	23.99	0.93	6.82	16.59	0.85	46.04
07PAYT07-15	2393-47 (3811)	Rosthern	21.25	1.21	6.57	16.71	1.00	50.18
07PAYT07-16	2393-52 (3802)	Rosthern	24.01	1.44	6.39	16.39	0.85	47.14
07PAYT07-17	2393-55 (3825)	Rosthern	22.23	0.95	6.69	16.57	0.90	50.10
07PAYT07-18	2393-56 (3829)	Rosthern	22.99	1.11	6.98	16.36	1.19	47.72
07PAYT07-19	2393-67 (3834)	Rosthern	21.14	1.23	6.88	15.89	0.97	49.39
07PAYT07-20	2393-72 (3824)	Rosthern	21.97	1.20	6.88	16.52	0.96	48.74
07PAYT07-21	2393-77 (3803)	Rosthern	22.28	1.19	6.92	17.65	0.95	51.39
07PAYT07-22	2329-2 (3828)	Rosthern	22.25	1.12	6.83	16.75	0.87	51.14
07PAYT07-23	2329-5 (3810)	Rosthern	20.19	1.27	6.71	16.49	0.99	50.47
07PAYT07-24	2329-8 (3826)	Rosthern	21.24	1.27	6.74	16.94	1.15	50.29
07PAYT07-25	2329-17 (3806)	Rosthern	20.53	1.17	6.85	16.27	1.22	49.10
07PAYT07-26	2329-18 (3801)	Rosthern	21.84	1.10	6.85	16.99	1.16	48.47
07PAYT07-27	2329-21 (3812)	Rosthern	20.60	1.18	6.66	16.08	1.22	49.04
07PAYT07-28	2329-23 (3820)	Rosthern	21.62	1.19	6.80	16.81	1.01	49.07

07PAYT07-29	2329-26 (3835)	Rosthern	22.02	1.07	6.99	17.07	0.92	48.69
07PAYT07-30	2329-27 (3805)	Rosthern	20.75	1.16	6.73	16.77	1.24	50.26
07PAYT07-31	2336-3 (3808)	Rosthern	23.05	1.22	6.78	16.80	0.79	49.26
07PAYT07-32	2336-5 (3823)	Rosthern	22.43	1.00	7.08	17.03	0.81	50.09
07PAYT07-33	2391-2 (3814)	Rosthern	21.84	1.29	6.90	16.15	1.26	48.46
07PAYT07-34	2391-3 (3821)	Rosthern	22.08	1.11	7.01	16.33	0.90	48.76
07PAYT07-35	2391-4 (3816)	Rosthern	22.46	1.26	6.63	15.72	1.07	47.92
07PAYT07-36	2391-5 (3819)	Rosthern	23.10	1.16	6.98	16.59	0.89	48.09
07PAYT08-01	Cutlass (4430)	Rosthern	20.66	1.30	6.69	16.31	0.76	47.90
07PAYT08-02	Eclipse(4427)	Rosthern	20.13	1.31	6.65	15.70	0.80	48.97
07PAYT08-03	CDC Meadow(4406)	Rosthern	20.39	1.24	6.66	16.59	1.01	47.05
07PAYT08-04	2391-7 (4434)	Rosthern	20.00	1.09	6.41	16.68	1.06	49.04
07PAYT08-05	2391-12 (4431)	Rosthern	20.79	1.28	6.37	16.58	0.98	49.03
07PAYT08-06	2391-15 (4416)	Rosthern	20.37	1.31	6.34	16.34	1.20	46.78
07PAYT08-07	2391-20 (4402)	Rosthern	22.23	1.27	6.43	16.93	0.76	48.62
07PAYT08-08	2391-22 (4419)	Rosthern	20.64	1.22	6.32	16.80	0.94	49.99
07PAYT08-09	2391-31 (4432)	Rosthern	19.74	1.38	6.41	16.22	1.24	49.79
07PAYT08-10	2391-32 (4414)	Rosthern	20.25	1.30	6.60	16.41	1.02	47.02
07PAYT08-11	2391-33 (4409)	Rosthern	20.48	1.53	6.35	15.48	1.21	46.16
07PAYT08-12	2391-34 (4412)	Rosthern	20.34	1.23	6.30	16.35	1.03	47.03
07PAYT08-13	2391-36 (4403)	Rosthern	20.87	1.25	6.57	16.55	0.81	46.75
07PAYT08-14	2387-20(4428)	Rosthern	19.90	1.26	6.64	16.21	1.30	48.51
07PAYT08-15	2387-22 (4413)	Rosthern	19.95	1.29	6.32	16.88	1.05	50.44
07PAYT08-16	2387-23 (4426)	Rosthern	19.03	1.40	6.52	16.59	1.08	50.72
07PAYT08-17	2387-24 (4407)	Rosthern	19.82	1.28	6.73	16.66	1.06	48.61
07PAYT08-18	2387-27(4417)	Rosthern	20.02	1.33	6.37	16.38	0.98	47.26
07PAYT08-19	2387-28 (4429)	Rosthern	20.14	1.43	6.62	16.16	0.81	47.94
07PAYT08-20	2387-32 (4425)	Rosthern	20.90	1.00	6.63	16.75	0.72	50.63
07PAYT08-21	2387-33 (4435)	Rosthern	19.05	1.36	6.45	16.43	1.17	50.83
07PAYT08-22	2387-35 (4410)	Rosthern	20.17	1.50	6.08	15.85	1.11	44.75
07PAYT08-23	2387-38 (4424)	Rosthern	19.52	1.56	6.47	16.42	1.25	47.06
07PAYT08-24	2387-41 (4436)	Rosthern	18.24	1.58	6.23	15.95	0.94	47.44
07PAYT08-25	2387-44 (4405)	Rosthern	19.30	1.25	6.44	17.12	0.80	50.47
07PAYT08-26	2387-46 (4408)	Rosthern	20.22	1.56	6.10	15.83	0.98	48.72
07PAYT08-27	2387-48 (4401)	Rosthern	19.30	1.29	6.61	16.27	1.28	47.54

07PAYT08-28	2496-1 (4415)	Rosthern	21.19	1.12	6.57	16.65	0.93	45.42
07PAYT08-29	2244-3 (4422)	Rosthern	20.42	1.28	6.17	17.13	0.75	49.88
07PAYT08-30	2403-28 (4433)	Rosthern	20.07	1.43	6.37	16.39	1.16	46.50
07PAYT08-31	2246-3 (4420)	Rosthern	20.83	1.29	6.69	16.64	0.90	48.24
07PAYT08-32	2246-4 (4404)	Rosthern	20.13	1.29	6.82	16.52	1.00	48.53
07PAYT08-33	2242-2 (4411)	Rosthern	20.77	1.24	6.61	17.17	0.99	49.64
07PAYT08-34	2242-3 (4423)	Rosthern	19.69	1.36	6.41	16.99	1.00	50.70
07PAYT08-35	2387-51 (4418)	Rosthern	18.54	1.51	6.46	16.44	1.20	49.27
07PAYT08-36	2387-53 (4421)	Rosthern	20.16	1.33	6.68	16.41	0.97	46.98
07PAYT09-01	Cutlass (5017)	Rosthern	20.34	1.28	6.99	15.79	0.81	50.94
07PAYT09-02	Eclipse (5025)	Rosthern	20.28	1.32	6.65	15.73	1.06	49.44
07PAYT09-03	CDC Meadow (5004)	Rosthern	17.97	1.15	7.15	17.24	1.08	51.46
07PAYT09-04	2281-3 (5029)	Rosthern	18.98	1.34	6.52	16.25	0.78	50.61
07PAYT09-05	2281-6 (5033)	Rosthern	18.06	1.31	6.83	16.88	0.94	51.18
07PAYT09-06	2281-26 (5031)	Rosthern	18.95	1.44	6.91	15.96	0.78	48.65
07PAYT09-07	2281-28 (5015)	Rosthern	18.90	1.02	6.84	16.83	0.96	50.19
07PAYT09-08	2281-32 (5036)	Rosthern	19.33	1.41	6.63	16.46	0.84	50.01
07PAYT09-09	2281-34 (5008)	Rosthern	19.65	1.30	6.81	16.95	0.85	50.09
07PAYT09-10	2281-36 (5013)	Rosthern	20.32	1.05	6.63	16.90	0.87	50.32
07PAYT09-11	2281-45 (5006)	Rosthern	20.42	1.39	6.46	16.24	0.63	50.83
07PAYT09-12	2380-12 (5026)	Rosthern	20.63	1.29	6.75	16.02	0.71	48.17
07PAYT09-13	2380-16 (5020)	Rosthern	20.13	1.22	6.69	17.03	0.89	50.94
07PAYT09-14	2380-19 (5030)	Rosthern	19.73	1.51	6.43	16.20	0.61	51.62
07PAYT09-15	2380-25 (5014)	Rosthern	19.72	1.57	6.38	15.56	0.73	48.65
07PAYT09-16	2380-28 (5002)	Rosthern	20.27	1.29	6.59	16.14	0.54	49.69
07PAYT09-17	2380-32 (5024)	Rosthern	19.97	1.52	6.23	16.11	0.99	49.74
07PAYT09-18	2380-47 (5032)	Rosthern	20.04	1.17	6.35	16.76	0.69	46.42
07PAYT09-19	2380-50 (5010)	Rosthern	19.96	1.44	6.52	16.23	1.06	48.28
07PAYT09-20	2380-62 (5035)	Rosthern	20.67	1.65	6.33	16.26	0.95	48.73
07PAYT09-21	2380-69 (5023)	Rosthern	19.75	1.47	6.12	16.18	0.60	49.70
07PAYT09-22	2308-4 (5027)	Rosthern	19.49	1.27	6.47	16.37	1.09	50.32
07PAYT09-23	2308-14 (5007)	Rosthern	20.00	1.40	6.22	16.05	0.80	48.33
07PAYT09-24	2282-3 (5011)	Rosthern	19.76	1.44	6.49	15.73	0.50	49.32
07PAYT09-25	2282-7 (5016)	Rosthern	20.79	1.53	6.67	16.73	0.88	50.12
07PAYT09-26	2282-11 (5009)	Rosthern	20.49	1.19	6.72	16.30	0.67	50.42

07PAYT09-27	2282-13 (5021)	Rosthern	21.08	1.45	6.36	16.60	0.85	47.68
07PAYT09-28	2282-14 (5018)	Rosthern	19.69	1.32	6.55	16.42	0.56	51.12
07PAYT09-29	2282-15 (5003)	Rosthern	21.04	1.06	6.57	16.67	0.96	49.92
07PAYT09-30	2282-17 (5034)	Rosthern	21.08	1.31	6.51	16.77	0.87	48.54
07PAYT09-31	2282-21 (5005)	Rosthern	17.98	1.30	6.60	16.41	0.84	51.17
07PAYT09-32	2282-23 (5022)	Rosthern	22.05	1.25	6.41	16.28	0.74	48.81
07PAYT09-33	2282-28 (5012)	Rosthern	20.54	1.38	6.38	16.62	0.92	49.87
07PAYT09-34	2282-29(5019)	Rosthern	20.13	1.31	6.21	16.71	0.72	51.48
07PAYT09-35	2379-10 (5001)	Rosthern	20.41	1.27	6.37	16.13	0.97	48.22
07PAYT09-36	2379-12 (5028)	Rosthern	19.99	1.29	6.31	16.58	1.00	50.54
07PAYT10-01	Cutlass (5621)	Rosthern	21.35	1.45	6.57	16.15	1.08	50.29
07PAYT10-02	Eclipse (5618)	Rosthern	21.18	1.57	6.38	15.29	1.27	49.03
07PAYT10-03	CDC Meadow (5607)	Rosthern	20.88	1.42	6.76	16.33	1.32	49.51
07PAYT10-04	2379-13 (5605)	Rosthern	21.41	1.46	6.50	16.39	1.10	48.49
07PAYT10-05	2379-19 (5613)	Rosthern	20.83	1.46	6.51	16.19	1.02	48.76
07PAYT10-06	2379-20 (5633)	Rosthern	21.37	1.32	6.90	16.55	1.16	49.02
07PAYT10-07	2379-22 (5635)	Rosthern	21.46	1.33	6.48	16.24	1.16	47.05
07PAYT10-08	2379-25 (5611)	Rosthern	21.32	1.57	6.49	16.07	1.18	48.75
07PAYT10-09	2379-30 (5625)	Rosthern	23.06	1.32	6.61	15.73	0.74	47.59
07PAYT10-10	2379-38 (5617)	Rosthern	21.76	1.42	6.55	16.23	1.08	48.68
07PAYT10-11	2386-2 (5610)	Rosthern	20.94	1.68	6.44	16.03	1.28	46.27
07PAYT10-12	2386-6 (5602)	Rosthern	21.04	1.59	6.42	15.36	0.78	47.36
07PAYT10-13	2305-3 (5627)	Rosthern	20.76	1.23	6.83	16.73	1.08	49.89
07PAYT10-14	2305-12 (5616)	Rosthern	23.78	1.62	6.52	15.75	1.04	46.59
07PAYT10-15	2305-18 (5620)	Rosthern	20.56	1.22	6.77	16.72	1.06	48.56
07PAYT10-16	2286-11(5629)	Rosthern	21.57	1.69	6.33	15.84	0.79	47.93
07PAYT10-17	2286-15 (5634)	Rosthern	21.44	1.36	6.90	16.90	1.18	49.63
07PAYT10-18	2382-3 (5636)	Rosthern	20.82	1.51	6.80	16.08	1.36	48.25
07PAYT10-19	2473-12 (5632)	Rosthern	20.66	1.33	6.63	16.51	1.32	49.10
07PAYT10-20	2287-9 (5612)	Rosthern	22.11	1.60	6.86	16.53	1.19	46.67
07PAYT10-21	2471-4 (5615)	Rosthern	21.39	1.36	6.42	16.48	1.25	47.97
07PAYT10-22	2388-12 (5603)	Rosthern	21.95	1.52	6.83	15.89	1.21	48.83
07PAYT10-23	2388-22 (5619)	Rosthern	21.77	1.63	6.58	15.74	1.06	48.29
07PAYT10-24	2388-35 (5606)	Rosthern	21.81	1.63	6.33	14.94	0.78	46.40
07PAYT10-25	2464-33 (5609)	Rosthern	21.15	1.68	6.32	15.68	1.15	47.21

07PAYT10-26	2464-36 (5604)	Rosthern	21.47	1.80	6.24	15.40	1.06	46.79
07PAYT10-27	2462-18 (5623)	Rosthern	21.39	1.62	6.52	16.14	0.97	47.37
07PAYT10-28	2462-30 (5626)	Rosthern	20.29	1.86	6.01	15.27	1.06	45.67
07PAYT10-29	2462-31 (5631)	Rosthern	20.64	1.64	6.27	15.08	1.24	47.39
07PAYT10-30	2289-7 (5622)	Rosthern	22.26	1.54	6.54	15.98	1.06	47.80
07PAYT10-31	2334-40 (5624)	Rosthern	21.63	1.27	6.57	16.64	0.78	49.17
07PAYT10-32	2300-9 (5628)	Rosthern	22.33	1.40	6.59	15.72	1.04	45.08
07PAYT10-33	2467-6 (5608)	Rosthern	20.80	1.59	6.48	15.79	0.82	49.24
07PAYT10-34	2467-9 (5630)	Rosthern	22.34	1.48	6.37	15.48	0.93	45.77
07PAYT10-35	2467-14 (5614)	Rosthern	21.05	1.41	6.60	16.02	0.92	49.62
07PAYT10-36	2466-8 (5601)	Rosthern	19.80	1.39	6.88	15.78	1.27	48.67
07PAYT11-01	Cutlass (6217)	Rosthern	22.64	1.35	6.76	16.07	0.66	47.88
07PAYT11-02	Eclipse (6224)	Rosthern	21.74	1.17	6.78	16.08	1.14	47.83
07PAYT11-03	CDC Meadow (6236)	Rosthern	20.71	1.46	6.60	16.46	1.23	48.34
07PAYT11-04	2466-15 (6220)	Rosthern	21.67	1.44	6.86	15.74	0.71	48.26
07PAYT11-05	2464-3 (6229)	Rosthern	22.16	1.30	6.46	16.60	1.02	48.23
07PAYT11-06	2374-1 (6212)	Rosthern	22.57	1.48	6.59	15.40	0.73	47.33
07PAYT11-07	2374-9 (6216)	Rosthern	22.17	1.55	6.55	16.11	0.84	47.70
07PAYT11-08	2374-10 (6233)	Rosthern	20.22	1.66	6.86	16.95	1.12	49.86
07PAYT11-09	2374-12 (6209)	Rosthern	22.43	1.34	6.46	16.61	0.88	46.97
07PAYT11-10	2335-9 (6227)	Rosthern	22.26	1.48	6.99	17.04	0.69	48.72
07PAYT11-11	2354-13 (6214)	Rosthern	22.26	1.72	6.42	15.92	0.93	46.38
07PAYT11-12	2354-14 (6204)	Rosthern	22.17	1.85	6.21	14.76	1.04	47.78
07PAYT11-13	2349-2 (6223)	Rosthern	20.97	1.09	6.87	17.09	1.19	45.70
07PAYT11-14	2349-3(6201)	Rosthern	20.92	1.30	6.71	16.36	1.04	47.93
07PAYT11-15	2349-5 (6210)	Rosthern	22.57	1.48	6.67	16.44	0.98	47.37
07PAYT11-16	2349-16 (6230)	Rosthern	21.59	1.49	6.55	16.23	0.69	49.79
07PAYT11-17	2349-20 (6225)	Rosthern	21.62	1.51	6.35	15.81	1.00	48.73
07PAYT11-18	2395-5 (6221)	Rosthern	21.89	1.17	6.98	16.43	0.94	49.26
07PAYT11-19	2395-10 (6215)	Rosthern	22.09	1.06	6.96	16.74	0.82	48.09
07PAYT11-20	2395-15 (6235)	Rosthern	21.00	1.35	7.02	17.02	0.99	47.54
07PAYT11-21	2395-19 (6231)	Rosthern	23.00	1.09	7.14	17.35	1.10	46.90
07PAYT11-22	2395-20 (6207)	Rosthern	23.09	1.16	6.60	17.63	1.12	49.24
07PAYT11-23	2395-46 (6203)	Rosthern	22.41	0.89	6.88	16.99	1.10	47.11
07PAYT11-24	2395-56 (6211)	Rosthern	21.99	1.18	6.92	17.15	1.29	45.33

07PAYT11-25	2395-59 (6232)	Rosthern	23.86	1.37	6.57	16.15	1.03	46.80
07PAYT11-26	2464-25 (6226)	Rosthern	21.11	1.47	6.69	17.22	0.67	49.49
07PAYT11-27	2464-31 (6218)	Rosthern	22.14	1.59	6.20	15.97	1.23	48.63
07PAYT11-28	2334-9 (6222)	Rosthern	22.40	1.45	6.60	16.74	0.69	46.11
07PAYT11-29	2334-21 (6213)	Rosthern	19.59	1.46	6.65	15.80	0.97	49.10
07PAYT11-30	2334-23 (6206)	Rosthern	22.72	1.70	6.50	15.91	0.94	47.93
07PAYT11-31	2334-25 (6234)	Rosthern	22.01	1.28	7.16	17.60	1.10	47.06
07PAYT11-32	2334-27 (6202)	Rosthern	24.29	1.42	6.54	16.52	0.88	43.67
07PAYT11-33	2394-12 (6208)	Rosthern	21.76	1.29	6.85	16.48	1.02	47.67
07PAYT11-34	2394-21 (6219)	Rosthern	21.52	1.28	6.85	16.70	1.25	45.66
07PAYT11-35	2394-23 (6228)	Rosthern	21.94	1.13	6.92	17.30	1.00	46.89
07PAYT11-36	2394-24 (6205)	Rosthern	22.50	1.52	6.53	16.50	0.89	47.03
07PAYT12-01	Cutlass (6829)	Rosthern	22.08	1.62	6.79	15.44	0.87	47.23
07PAYT12-02	Eclipse (6801)	Rosthern	22.05	1.57	6.41	15.04	1.06	44.22
07PAYT12-03	CDC Meadow (6807)	Rosthern	21.10	1.31	6.56	15.93	1.21	48.55
07PAYT12-04	2394-26 (6820)	Rosthern	22.93	1.38	6.79	16.43	0.82	46.30
07PAYT12-05	2394-32 (6824)	Rosthern	22.48	1.06	7.19	17.67	0.70	49.63
07PAYT12-06	2394-34 (6818)	Rosthern	23.47	1.45	6.79	16.64	0.77	45.42
07PAYT12-07	2394-36 (6810)	Rosthern	22.94	1.07	6.98	18.62	0.83	49.01
07PAYT12-08	2394-39 (6826)	Rosthern	23.17	1.32	7.01	17.32	1.16	45.64
07PAYT12-09	2394-41 (6813)	Rosthern	21.53	1.20	6.94	16.91	0.91	48.40
07PAYT12-10	2394-50 (6811)	Rosthern	22.66	1.36	6.66	16.78	0.78	45.24
07PAYT12-11	2394-52 (6816)	Rosthern	21.19	1.08	6.86	17.69	0.80	50.13
07PAYT12-12	2394-56 (6835)	Rosthern	21.75	1.23	6.60	17.14	0.80	45.86
07PAYT12-13	2459-2 (6814)	Rosthern	22.66	1.40	6.50	16.68	1.01	48.18
07PAYT12-14	2394-58 (6827)	Rosthern	22.90	1.33	6.94	16.57	0.87	47.24
07PAYT12-15	2394-61 (6803)	Rosthern	20.81	0.96	7.11	18.13	1.13	48.26
07PAYT12-16	2394-64 (6831)	Rosthern	22.67	1.41	6.84	16.29	1.00	46.39
07PAYT12-17	2394-66 (6809)	Rosthern	19.75	1.09	6.90	17.62	1.28	49.10
07PAYT12-18	2273-4 (6822)	Rosthern	21.32	1.72	6.01	15.58	1.24	46.04
07PAYT12-19	2273-11 (6819)	Rosthern	21.66	1.13	6.42	16.52	1.20	48.84
07PAYT12-20	2273-14 (6808)	Rosthern	21.87	1.39	6.51	15.78	0.67	47.07
07PAYT12-21	2273-19 (6817)	Rosthern	22.74	1.29	6.47	16.25	0.96	47.51
07PAYT12-22	2273-24 (6833)	Rosthern	22.79	1.46	6.46	15.42	1.07	45.39
07PAYT12-23	2307-1 (6804)	Rosthern	20.64	1.23	6.96	17.37	1.12	48.15

07PAYT12-24	2307-6(6802)	Rosthern	22.40	1.58	6.64	15.75	0.76	45.56
07PAYT12-25	2307-12 (6825)	Rosthern	22.07	1.22	6.76	16.78	0.86	48.29
07PAYT12-26	2262-3 (6812)	Rosthern	22.58	1.70	5.95	14.96	0.87	45.98
07PAYT12-27	2295-10 (6805)	Rosthern	22.21	1.45	6.77	16.49	0.41	48.76
07PAYT12-28	2295-13 (6828)	Rosthern	22.53	1.31	7.09	16.80	1.03	45.33
07PAYT12-29	2461-1 (6821)	Rosthern	22.60	1.48	6.74	15.90	1.02	48.86
07PAYT12-30	2461-12 (6836)	Rosthern	22.88	1.53	6.68	16.21	0.81	46.24
07PAYT12-31	2461-14 (6823)	Rosthern	22.42	1.29	6.54	15.93	0.93	46.53
07PAYT12-32	2460-3 (6834)	Rosthern	23.66	1.65	6.22	15.42	0.96	44.35
07PAYT12-33	2460-4 (6815)	Rosthern	20.78	1.29	6.67	16.12	0.80	47.66
07PAYT12-34	2460-10 (6830)	Rosthern	23.32	1.25	6.67	16.59	1.24	45.53
07PAYT12-35	2460-11 (6832)	Rosthern	22.03	1.41	6.78	16.89	0.78	48.74
07PAYT12-36	2241-6 (6806)	Rosthern	20.77	1.62	6.70	15.64	0.98	47.03
07PAYT13-01	Cutlass (7431)	Rosthern	22.32	1.53	6.93	16.68	0.80	46.94
07PAYT13-02	CDC Striker (7408)	Rosthern	22.42	1.54	6.68	16.00	1.38	46.86
07PAYT13-03	CDC Sage (7413)	Rosthern	23.29	1.45	7.08	16.58	1.06	47.17
07PAYT13-04	2269-12 (7422)	Rosthern	21.58	1.60	7.31	16.77	0.92	46.40
07PAYT13-05	2269-14 (7407)	Rosthern	23.70	1.47	7.55	16.32	1.04	46.15
07PAYT13-06	2348-2 (7432)	Rosthern	21.35	1.44	7.09	16.71	0.94	48.16
07PAYT13-07	2348-13 (7426)	Rosthern	22.12	1.15	7.63	17.21	0.95	47.24
07PAYT13-08	2348-15 (7419)	Rosthern	23.29	1.29	7.24	16.50	0.86	45.55
07PAYT13-09	2347-5 (7406)	Rosthern	23.22	1.19	7.20	17.15	0.86	47.33
07PAYT13-10	2404-5 (7402)	Rosthern	21.39	1.34	6.77	16.37	1.00	47.44
07PAYT13-11	2404-11 (7417)	Rosthern	23.20	0.95	7.26	16.42	1.36	46.87
07PAYT13-12	2404-15 (7404)	Rosthern	23.03	1.25	7.11	16.01	0.85	45.46
07PAYT13-13	2404-16 (7414)	Rosthern	21.72	1.14	6.77	16.58	1.12	48.95
07PAYT13-14	2404-19 (7401)	Rosthern	23.02	1.20	6.81	16.16	1.01	45.05
07PAYT13-15	2342-4 (7412)	Rosthern	22.27	0.95	7.16	16.90	1.15	47.86
07PAYT13-16	2342-8 (7405)	Rosthern	23.47	1.13	6.85	16.59	1.02	46.10
07PAYT13-17	2369-5 (7424)	Rosthern	21.86	0.83	7.49	17.35	1.30	46.68
07PAYT13-18	2369-6 (7409)	Rosthern	22.28	0.87	7.15	17.05	1.18	46.39
07PAYT13-19	2369-8 (7434)	Rosthern	22.40	0.94	7.00	17.40	1.09	48.12
07PAYT13-20	2344-1 (7425)	Rosthern	22.47	1.34	6.92	16.56	1.10	48.10
07PAYT13-21	2344-7 (7429)	Rosthern	21.60	1.18	7.38	16.84	1.15	49.19
07PAYT13-22	2335-1 (7411)	Rosthern	23.73	1.02	7.41	16.94	0.95	43.84

07PAYT13-23	2477-1 (7418)	Rosthern	23.90	1.13	7.16	16.72	1.02	47.09
07PAYT13-24	2477-10 (7421)	Rosthern	22.24	1.11	6.95	17.14	1.00	46.28
07PAYT13-25	2501-1 (7410)	Rosthern	22.42	0.98	7.53	17.29	1.08	46.03
07PAYT13-26	2366-1 (7436)	Rosthern	22.04	1.13	7.03	17.20	1.21	48.12
07PAYT13-27	2366-7 (7433)	Rosthern	23.65	0.93	7.35	17.21	1.10	46.47
07PAYT13-28	2366-8 (7428)	Rosthern	22.98	1.16	7.22	16.28	1.04	47.49
07PAYT13-29	2506-1 (7415)	Rosthern	23.96	0.81	7.20	16.93	1.03	44.91
07PAYT13-30	2506-5 (7420)	Rosthern	23.95	1.06	7.24	17.46	1.18	47.00
07PAYT13-31	2507-2 (7423)	Rosthern	21.81	1.03	7.24	16.71	1.36	47.69
07PAYT13-32	2336-1 (7416)	Rosthern	23.73	1.07	7.26	17.46	0.94	47.54
07PAYT13-33	2402-5 (7403)	Rosthern	21.69	0.98	7.21	16.52	1.39	49.45
07PAYT13-34	2402-8 (7435)	Rosthern	22.04	1.26	7.00	16.78	1.16	48.17
07PAYT13-35	2293-16 (7430)	Rosthern	24.29	1.13	7.31	16.48	0.83	47.25
07PAYT13-36	2293-17 (7427)	Rosthern	22.96	1.19	6.94	16.63	0.82	46.40
07PAYT014-01	Cutlass (8018)	Rosthern	20.29	1.22	6.57	16.18	0.98	47.94
07PAYT014-02	CDC Striker (8023)	Rosthern	22.02	1.39	6.40	16.10	1.00	47.48
07PAYT014-03	CDC Sage (8002)	Rosthern	20.90	0.92	6.59	16.26	1.33	48.05
07PAYT014-04	2399-3 (8033)	Rosthern	22.03	1.17	6.58	15.90	0.86	46.05
07PAYT014-05	2399-12 (8015)	Rosthern	22.14	0.67	6.85	17.01	1.30	48.05
07PAYT014-06	2399-18 (8020)	Rosthern	22.23	1.21	7.02	16.40	0.81	46.02
07PAYT014-07	2399-20 (8030)	Rosthern	20.96	0.92	6.92	16.56	1.01	49.80
07PAYT014-08	2290-1 (8027)	Rosthern	21.90	0.83	7.32	16.51	1.07	47.93
07PAYT014-09	2290-4 (8012)	Rosthern	20.60	1.02	6.66	16.63	1.05	50.55
07PAYT014-10	2290-6 (8034)	Rosthern	22.91	0.85	7.31	16.79	0.97	45.87
07PAYT014-11	2459-14 (8024)	Rosthern	20.88	1.08	6.63	16.26	0.99	48.63
07PAYT014-12	2292-21 (8019)	Rosthern	20.18	1.06	6.92	16.98	1.09	50.14
07PAYT014-13	2292-30 (8010)	Rosthern	21.01	0.71	6.89	16.64	1.43	48.58
07PAYT014-14	2406-3 (8014)	Rosthern	21.92	0.64	7.44	16.97	0.94	45.45
07PAYT014-15	2406-10 (8028)	Rosthern	22.95	0.78	6.74	16.51	1.32	46.94
07PAYT014-16	2406-12 (8011)	Rosthern	21.06	0.95	6.62	16.42	0.82	48.50
07PAYT014-17	2406-13 (8035)	Rosthern	21.51	0.72	7.26	17.19	1.31	48.02
07PAYT014-18	2406-14 (8013)	Rosthern	20.96	0.94	6.67	16.56	1.27	47.63
07PAYT014-19	2406-20 (8004)	Rosthern	20.91	0.68	6.71	17.16	1.44	46.18
07PAYT014-20	2318-1 (8007)	Rosthern	20.56	1.20	6.66	16.44	1.02	48.01
07PAYT014-21	2241-3 (8009)	Rosthern	21.02	0.80	6.56	17.04	1.33	48.29

07PAYT014-22	2473-2 (8029)	Rosthern	21.28	0.97	6.68	16.35	1.00	47.45
07PAYT014-23	2473-5 (8006)	Rosthern	20.41	0.88	6.84	17.08	1.35	49.43
07PAYT014-24	2270-3 (8022)	Rosthern	20.44	1.22	6.91	16.33	0.87	49.62
07PAYT014-25	2270-6 (8032)	Rosthern	22.77	1.05	7.08	16.22	0.90	48.41
07PAYT014-26	2270-11 (8017)	Rosthern	23.16	0.90	7.20	16.89	0.90	48.14
07PAYT014-27	2270-15 (8021)	Rosthern	21.47	0.54	6.93	16.96	1.13	46.57
07PAYT014-28	2297-12 (8026)	Rosthern	20.12	1.12	6.94	16.54	1.11	48.80
07PAYT014-29	2297-35 (8016)	Rosthern	20.41	0.89	6.88	17.07	0.77	51.04
07PAYT014-30	2298-7 (8003)	Rosthern	20.82	0.86	6.92	16.62	1.00	49.25
07PAYT014-31	2400-17 (8008)	Rosthern	21.71	0.96	7.05	16.62	0.87	48.49
07PAYT014-32	2400-20 (8036)	Rosthern	19.48	0.98	6.68	16.57	1.42	49.51
07PAYT014-33	2294-21 (8031)	Rosthern	20.92	1.10	7.07	16.28	1.15	49.04
07PAYT014-34	2294-42 (8001)	Rosthern	20.79	1.14	7.06	16.23	1.03	50.05
07PAYT014-35	2291-10 (8025)	Rosthern	22.02	0.84	6.59	16.31	1.10	45.22
07PAYT014-36	2291-13 (8005)	Rosthern	21.64	1.04	6.93	17.33	1.02	49.77
07PAYT15-01	Cutlass (8634)	Rosthern	22.78	1.25	7.14	16.50	0.60	49.55
07PAYT15-02	CDCStriker (8631)	Rosthern	22.93	1.27	7.04	16.37	1.10	48.39
07PAYT15-03	CDC Sager (8617)	Rosthern	22.99	1.20	6.86	16.53	1.15	47.35
07PAYT15-04	2291-20 (8612)	Rosthern	24.57	1.17	6.92	16.81	0.81	46.70
07PAYT15-05	2291-23 (8629)	Rosthern	23.31	1.28	7.34	16.03	0.93	47.83
07PAYT15-06	2403-4 (8626)	Rosthern	23.09	1.25	7.12	16.64	1.06	47.33
07PAYT15-7	2403-10 (8601)	Rosthern	23.21	1.21	7.05	16.99	0.79	45.41
07PAYT15-8	2403-20 (8604)	Rosthern	23.07	1.36	7.32	16.59	1.00	48.51
07PAYT15-9	2299-4 (8632)	Rosthern	22.59	1.23	7.03	16.29	0.89	47.50
07PAYT15-10	2475-12 (8606)	Rosthern	24.24	0.97	7.58	16.96	0.97	45.98
07PAYT15-11	2321-1 (8611)	Rosthern	22.79	1.18	6.83	16.89	1.18	48.86
07PAYT15-12	2471-1 (8608)	Rosthern	24.26	1.35	7.19	16.16	1.03	43.64
07PAYT15-13	2471-3 (8630)	Rosthern	23.48	1.24	7.27	16.41	0.92	47.24
07PAYT15-14	2476-4 (8635)	Rosthern	22.89	1.33	6.96	16.34	1.05	46.87
07PAYT15-15	2467-2 (8613)	Rosthern	22.92	1.22	6.97	16.58	0.93	47.97
07PAYT15-16	2341-17 (8609)	Rosthern	22.53	1.38	6.76	16.66	0.89	50.07
07PAYT15-17	2476-9 (8623)	Rosthern	25.55	1.06	7.17	16.13	0.67	47.72
07PAYT15-18	2322-5 (8620)	Rosthern	24.12	1.29	7.16	17.39	1.09	46.49
07PAYT15-19	2336-8 (8625)	Rosthern	23.00	1.28	7.27	17.07	0.81	49.45
07PAYT15-20	2336-11 (8627)	Rosthern	21.99	1.23	7.06	17.46	1.15	48.58

07PAYT15-21	2342-39 (8616)	Rosthern	22.78	1.17	7.02	16.65	1.13	48.88
07PAYT15-22	2403-41 (8621)	Rosthern	23.80	1.07	7.23	17.19	1.26	47.17
07PAYT15-23	2403-45 (8605)	Rosthern	22.89	1.30	7.16	16.53	0.96	49.13
07PAYT15-24	2400-34 (8619)	Rosthern	24.19	1.10	7.13	16.90	0.94	47.91
07PAYT15-25	2400-38 (8636)	Rosthern	22.51	1.21	6.77	16.87	1.08	50.06
07PAYT15-26	2475-15 (8603)	Rosthern	21.98	1.18	6.99	17.38	1.15	49.78
07PAYT15-27	2475-16 (8614)	Rosthern	23.04	1.16	6.94	17.19	1.06	48.20
07PAYT15-28	2475-20(8610)	Rosthern	21.54	1.17	7.04	16.81	1.21	48.39
07PAYT15-29	2475-21(8618)	Rosthern	22.72	1.35	6.73	17.04	1.28	48.47
07PAYT15-30	2475-22(8607)	Rosthern	23.47	1.11	6.67	16.60	0.94	46.15
07PAYT15-31	2404-26 (8615)	Rosthern	22.54	1.17	7.16	16.81	1.18	50.86
07PAYT15-32	2404-33 (8624)	Rosthern	23.71	1.18	7.06	16.17	0.92	49.35
07PAYT15-33	2404-37 (8622)	Rosthern	23.39	1.15	6.90	16.63	0.95	50.87
07PAYT15-34	2402-9 (8628)	Rosthern	22.62	1.18	7.27	17.39	1.18	48.35
07PAYT15-35	2337-6 (8633)	Rosthern	22.14	1.12	7.00	17.26	1.06	49.10
07PAYT15-36	2337-7 (8602)	Rosthern	23.38	1.25	6.85	17.13	0.93	47.83
07PAYT16-01	Cutlass (9234)	Rosthern	22.88	1.13	7.24	16.80	0.78	49.66
07PAYT16-02	CDC Striker (9228)	Rosthern	23.64	1.37	6.90	16.45	1.00	45.90
07PAYT16-03	CDC Dundurn (9230)	Rosthern	22.68	1.25	7.86	18.47	0.95	45.46
07PAYT16-04	2337-12 (9215)	Rosthern	22.97	1.20	7.27	16.77	1.19	48.21
07PAYT16-05	2471-9 (9227)	Rosthern	24.13	1.13	7.08	16.85	0.89	47.33
07PAYT16-06	2471-11 (9201)	Rosthern	22.06	1.30	7.06	16.53	1.27	48.27
07PAYT16-07	2471-12 (9212)	Rosthern	22.68	1.07	7.07	16.71	1.00	47.14
07PAYT16-08	2471-13 (9217)	Rosthern	22.26	1.39	6.67	16.02	1.23	47.57
07PAYT16-09	2318-25 (9202)	Rosthern	22.64	1.36	6.72	17.07	1.17	48.75
07PAYT16-10	2472-8 (9211)	Rosthern	22.31	1.22	7.13	16.76	1.08	48.99
07PAYT16-11	2472-9 (9204)	Rosthern	22.72	1.34	6.96	16.85	0.86	47.97
07PAYT16-12	2472-13 (9222)	Rosthern	24.27	1.14	7.03	17.07	0.78	47.63
07PAYT16-13	2472-15 (9207)	Rosthern	22.74	1.37	6.86	16.66	1.02	49.19
07PAYT16-14	2472-18 (9214)	Rosthern	22.20	1.20	7.46	16.90	1.00	47.24
07PAYT16-15	2477-16(9235)	Rosthern	22.84	1.18	6.95	16.42	1.08	48.34
07PAYT16-16	2366-12 (9205)	Rosthern	21.74	1.28	6.93	17.00	0.73	49.77
07PAYT16-17	2366-16 (9226)	Rosthern	23.48	1.38	6.94	16.54	1.05	47.50
07PAYT16-18	2244-8 (9233)	Rosthern	23.14	0.84	7.98	18.04	1.20	43.60
07PAYT16-19	2244-9 (9213)	Rosthern	22.81	1.06	7.36	18.14	1.05	48.02

07PAYT16-20	2244-10 (9203)	Rosthern	22.53	1.05	7.57	18.80	1.18	45.26
07PAYT16-21	2244-11 (9209)	Rosthern	23.36	1.14	7.44	17.72	0.91	46.58
07PAYT16-22	2498-5 (9223)	Rosthern	23.86	0.89	7.72	17.30	1.02	49.26
07PAYT16-23	2498-6 (9229)	Rosthern	22.26	1.04	7.57	17.58	0.95	46.57
07PAYT16-24	2246-6 (9208)	Rosthern	22.15	0.85	7.62	17.16	1.07	47.12
07PAYT16-25	2246-7 (9216)	Rosthern	23.00	0.98	7.84	17.00	0.99	44.74
07PAYT16-26	2246-8 (9232)	Rosthern	22.74	1.03	7.47	17.58	1.02	46.78
07PAYT16-27	2246-10 (9220)	Rosthern	23.69	1.32	7.71	17.27	0.93	44.54
07PAYT16-28	2246-12 (9225)	Rosthern	22.19	0.82	7.48	17.70	1.13	46.87
07PAYT16-29	2499-4 (9231)	Rosthern	22.44	1.19	8.25	17.02	0.75	45.46
07PAYT16-30	2499-5 (9219)	Rosthern	22.99	1.11	7.48	17.31	0.91	48.73
07PAYT16-31	2252-5 (9224)	Rosthern	23.71	0.84	7.38	17.15	0.73	44.90
07PAYT16-32	2250-9 (9206)	Rosthern	22.20	1.08	7.75	17.22	0.81	47.16
07PAYT16-33	2338-6 (9210)	Rosthern	21.91	1.11	7.33	17.16	0.79	47.67
07PAYT16-34	2338-8 (9236)	Rosthern	22.13	0.98	7.82	17.66	1.06	46.73
07PAYT16-35	2251-8 (9218)	Rosthern	23.06	0.93	7.81	17.26	0.82	45.72
07PAYT16-36	2242-5 (9221)	Rosthern	23.47	0.73	7.59	17.61	0.77	44.00
07PAYT17-01	Cutlass (205)	Rosthern	22.12	1.24	7.15	16.23	0.82	49.70
07PAYT17-02	Eclipse (223)	Rosthern	21.88	1.38	6.82	16.18	1.24	47.80
07PAYT17-03	CDC Meadow (211)	Rosthern	21.88	1.26	7.00	17.28	1.10	49.22
07PAYT17-04	CDC Mozart (233)	Rosthern	20.15	1.32	6.99	16.42	0.68	52.42
07PAYT17-05	SW 229-502 (201)	Rosthern	21.23	1.33	6.43	16.81	0.96	50.37
07PAYT17-06	SW 229-505 (214)	Rosthern	20.08	1.20	6.80	17.08	1.29	49.30
07PAYT17-07	SW 229-509 (203)	Rosthern	21.67	1.39	6.86	16.98	0.85	51.94
07PAYT17-08	SW 230-510 (209)	Rosthern	23.34	1.29	6.92	16.85	0.82	49.69
07PAYT17-09	SW 231-514 (215)	Rosthern	24.22	1.43	6.58	16.32	0.68	47.52
07PAYT17-10	SW 233-527 (231)	Rosthern	20.38	1.24	7.10	17.09	1.17	51.31
07PAYT17-11	SW 236-532 (234)	Rosthern	23.58	1.21	6.78	17.32	1.14	48.35
07PAYT17-12	SW 236-533 (217)	Rosthern	22.08	1.17	6.92	16.88	1.02	49.14
07PAYT17-13	SW 237-537 (208)	Rosthern	20.03	1.58	6.84	16.44	1.04	51.46
07PAYT17-14	SW 238-543 (208)	Rosthern	20.96	1.16	6.94	16.82	1.13	50.88
07PAYT17-15	SW 238-544 (232)	Rosthern	21.39	1.28	6.85	17.29	0.82	50.91
07PAYT17-16	SW 239-546 (212)	Rosthern	21.99	1.02	7.00	16.76	1.06	52.08
07PAYT17-17	SW 240-551 (225)	Rosthern	20.13	1.13	7.19	16.88	1.07	51.25
07PAYT17-18	SW 242-561 (219)	Rosthern	21.21	1.08	6.80	16.64	1.29	52.25

07PAYT17-19	SW 246-568 (228)	Rosthern	21.43	1.18	6.73	17.67	0.83	47.70
07PAYT17-20	SW 248-573 (216)	Rosthern	22.55	1.05	6.54	16.66	1.18	49.39
07PAYT17-21	SW 251-580 (202)	Rosthern	23.41	1.33	7.19	16.60	0.96	49.01
07PAYT17-22	SW03-705 (226)	Rosthern	23.69	1.20	7.25	16.75	1.23	48.16
07PAYT17-23	SW03-741 (206)	Rosthern	20.65	1.39	7.28	17.36	1.11	52.54
07PAYT17-24	SW03-754 (213)	Rosthern	24.81	1.15	7.06	16.68	1.01	47.23
07PAYT17-25	SW03-846 (210)	Rosthern	23.23	1.42	6.86	16.21	1.23	48.02
07PAYT17-26	SW03-873 (224)	Rosthern	22.96	2.74	9.26	19.57	-9.26	61.41
07PAYT17-27	SW03-874 (220)	Rosthern	22.80	1.20	6.76	16.70	0.52	51.30
07PAYT17-28	SW03-881 (230)	Rosthern	21.61	1.18	7.23	17.44	0.93	52.95
07PAYT17-29	SW03-888 (204)	Rosthern	22.42	1.40	6.90	15.79	0.82	47.19
07PAYT17-30	SW03-890 (235)	Rosthern	22.58	1.33	6.79	16.06	1.07	50.58
07PAYT17-31	SW03-897 (222)	Rosthern	22.34	1.37	7.02	16.62	1.03	50.17
07PAYT17-32	SW03-919 (227)	Rosthern	21.58	1.32	7.24	17.49	0.98	51.21
07PAYT17-33	SW03-925 (218)	Rosthern	22.27	1.15	6.95	17.48	1.08	50.52
07PAYT17-34	SW03-929 (221)	Rosthern	22.17	1.47	7.02	16.82	0.66	50.49
07PAYT17-35	SW03-930 (207)	Rosthern	21.76	1.44	6.70	15.73	1.15	48.31
07PAYT17-36	SW03-933 (229)	Rosthern	22.97	1.51	6.96	16.18	0.92	48.54
07PAYT18-01	Cutlass (832)	Rosthern	21.86	1.41	7.06	16.42	1.02	49.36
07PAYT18-02	Eclipse (834)	Rosthern	21.98	1.43	6.80	15.67	0.88	47.42
07PAYT18-03	CDC Meadow (819)	Rosthern	21.42	1.35	7.05	16.40	1.18	50.11
07PAYT18-04	CDC Mozart (810)	Rosthern	21.42	1.54	6.78	15.79	1.12	48.96
07PAYT18-05	SW 03-947 (816)	Rosthern	23.31	1.47	6.48	15.50	0.72	45.66
07PAYT18-07	SW 04-712 (822)	Rosthern	22.02	1.66	6.70	15.38	0.94	46.61
07PAYT18-08	SW 04-714 (828)	Rosthern	22.77	1.64	6.53	15.94	1.42	45.64
07PAYT18-09	SW 04-775 (807)	Rosthern	22.89	1.54	6.66	14.91	1.08	46.05
07PAYT18-10	SW 04-792 (813)	Rosthern	23.32	1.40	6.53	16.19	0.85	47.97
07PAYT18-11	SW 04-903 (823)	Rosthern	21.75	1.54	6.62	15.55	1.21	47.55
07PAYT18-12	SW 04-918 (818)	Rosthern	22.91	1.42	6.52	16.07	1.09	46.93
07PAYT18-13	SW 05-706 (821)	Rosthern	24.34	1.20	6.70	17.22	1.11	47.34
07PAYT18-14	SW 05-709 (831)	Rosthern	21.52	1.81	6.53	16.04	1.02	48.79
07PAYT18-15	SW 05-710 (801)	Rosthern	21.52	1.29	6.87	16.37	1.29	49.77
07PAYT18-16	SW 05-711 (815)	Rosthern	20.69	1.50	6.54	15.76	1.33	48.46
07PAYT18-17	SW 05-713 (806)	Rosthern	22.01	1.23	6.78	16.44	1.10	50.44
07PAYT18-18	SW 05-719 (803)	Rosthern	20.88	1.38	6.99	16.89	1.15	50.10

07PAYT18-19	SW 05-722 (829)	Rosthern	22.54	1.14	6.86	16.58	1.17	45.70
07PAYT18-20	SW 05-724 (805)	Rosthern	22.76	1.39	6.76	15.94	0.88	48.22
07PAYT18-21	SW 05-728 (824)	Rosthern	21.40	1.28	6.91	16.35	1.17	49.57
07PAYT18-22	SW 05-733 (817)	Rosthern	22.69	1.35	6.69	16.41	1.21	49.68
07PAYT18-23	SW 05-736 (808)	Rosthern	21.14	1.48	6.41	16.51	1.11	50.54
07PAYT18-24	SW 05-737 (814)	Rosthern	24.62	1.32	6.56	17.00	0.70	47.28
07PAYT18-25	SW 05-741 (811)	Rosthern	22.93	1.08	7.11	16.71	1.11	47.32
07PAYT18-26	SW 05-747 (826)	Rosthern	24.67	1.42	6.91	15.96	0.72	45.55
07PAYT18-27	SW 05-748 (833)	Rosthern	21.43	1.26	6.75	16.39	1.03	46.09
07PAYT18-28	SW 05-760 (835)	Rosthern	23.54	1.50	6.21	16.25	0.71	46.62
07PAYT18-29	SW 05-761 (827)	Rosthern	23.72	1.36	6.51	15.82	0.83	49.05
07PAYT18-30	SW 05-763 (830)	Rosthern	22.18	1.58	6.63	15.95	0.84	46.90
07PAYT18-31	SW 05-765 (804)	Rosthern	23.10	1.42	6.51	16.51	0.85	47.83
07PAYT18-32	SW 05-766 (836)	Rosthern	23.07	1.56	6.79	15.83	1.16	46.59
07PAYT18-33	SW 05-770 (820)	Rosthern	21.90	1.28	6.81	16.74	1.19	47.24
07PAYT18-34	SW 05-774 (802)	Rosthern	23.22	1.49	6.45	16.59	1.00	47.53
07PAYT18-35	SW 05-778 (809)	Rosthern	22.30	1.46	6.96	16.10	0.85	49.00
07PAYT18-36	SW 05-782 (812)	Rosthern	21.22	1.73	6.82	15.58	0.89	50.19
07PAYT18-06	SW 04-703 (825)	Rosthern	23.60	1.22	7.18	16.93	1.08	44.70
07PAYT19-01	Cutlass (1412)	Rosthern	20.12	1.27	6.86	16.45	0.94	50.21
07PAYT19-02	Eclipse (1401)	Rosthern	20.07	1.40	7.07	15.67	0.97	49.85
07PAYT19-03	CDC Striker (1413)	Rosthern	22.56	1.44	6.53	15.64	0.86	47.37
07PAYT19-04	CDC Sage (1414)	Rosthern	20.59	1.32	6.30	15.81	1.05	48.46
07PAYT19-05	SW05-783 (1406)	Rosthern	20.76	1.37	6.69	15.99	1.06	46.69
07PAYT19-06	SW04-570(1403)	Rosthern	20.60	1.37	6.42	16.33	0.81	50.03
07PAYT19-07	SW04-590 (1415)	Rosthern	21.58	1.33	6.55	15.91	1.20	48.00
07PAYT19-08	SW04-593 (1405)	Rosthern	21.11	1.15	6.75	16.62	0.93	49.72
07PAYT19-09	SW04-596 (1410)	Rosthern	21.36	1.40	6.32	16.67	1.11	50.76
07PAYT19-10	SW04-598 (1408)	Rosthern	21.09	1.39	6.00	16.74	1.29	50.18
07PAYT19-11	SW04-599 (1409)	Rosthern	19.92	1.28	6.63	16.77	0.99	49.10
07PAYT19-12	SW04-604 (1402)	Rosthern	22.01	1.15	6.32	15.93	0.79	46.62
07PAYT19-13	SW04-605 (1404)	Rosthern	20.73	1.36	6.51	16.47	1.37	48.35
07PAYT19-14	SW04-608 (1417)	Rosthern	21.46	1.33	6.97	16.52	1.03	46.60
07PAYT19-15	SW04-609 (1416)	Rosthern	19.18	1.51	6.64	16.59	1.07	51.21
07PAYT19-16	SW04-620(1418)	Rosthern	19.62	1.32	6.88	16.21	1.20	47.30

07PAYT19-17	SW04-622 (1407)	Rosthern	21.19	1.37	6.80	16.13	1.04	46.80
07PAYT19-18	SW230-511 (1411)	Rosthern	20.53	1.47	6.55	16.38	1.09	49.53

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07MFAYT01-1	Cutlass (1927)	Sutherland	22.12	1.69	6.76	15.90	1.04	49.15
07MFAYT01-2	WM -10 (1906)	Sutherland	22.37	1.55	6.88	15.65	1.63	45.92
07MFAYT01-3	Rambo (1929)	Sutherland	21.90	1.71	6.97	15.07	1.02	46.57
07MFAYT01-4	MFR042 (1901)	Sutherland	22.70	1.56	6.78	15.82	0.87	45.47
07MFAYT01-5	672-3 (1912)	Sutherland	22.33	1.80	6.80	15.48	1.22	44.20
07MFAYT01-6	672-4 (1936)	Sutherland	21.69	1.54	6.70	16.01	1.01	45.30
07MFAYT01-7	676-2 (1931)	Sutherland	23.76	1.44	6.91	15.76	1.16	44.92
07MFAYT01-8	676-11 (1916)	Sutherland	22.66	1.61	6.64	15.05	1.07	44.13
07MFAYT01-9	666-7 (1933)	Sutherland	24.64	1.62	6.67	15.58	1.07	43.28
07MFAYT01-10	666-11 (1921)	Sutherland	23.63	1.57	6.66	15.76	1.24	44.18
07MFAYT01-11	666-13 (1930)	Sutherland	23.25	1.53	6.77	15.19	1.13	44.74
07MFAYT01-12	666-15 (1917)	Sutherland	23.66	1.52	6.71	15.05	1.23	42.24
07MFAYT01-13	674-7 (1924)	Sutherland	23.34	1.52	6.84	15.16	1.09	43.60
07MFAYT01-14	691-2 (1935)	Sutherland	22.42	1.40	6.74	15.60	1.12	45.81
07MFAYT01-15	642-3 (1922)	Sutherland	21.82	1.62	6.85	15.57	1.35	45.61
07MFAYT01-16	642-4 (1932)	Sutherland	22.96	1.55	6.73	15.42	1.34	42.19
07MFAYT01-17	642-5 (1919)	Sutherland	21.94	1.59	6.79	15.03	1.38	46.77
07MFAYT01-18	668-6 (1915)	Sutherland	24.30	1.53	6.74	15.54	1.00	43.56
07MFAYT01-19	668-7 (1904)	Sutherland	23.37	1.60	6.94	15.80	1.18	45.64
07MFAYT01-20	720-2 (1902)	Sutherland	23.68	1.55	6.58	15.20	0.70	44.89
07MFAYT01-21	676-11 (1913)	Sutherland	20.99	1.64	6.42	15.22	0.80	46.22
07MFAYT01-22	686-5 (1908)	Sutherland	22.77	1.67	6.71	15.00	1.18	43.85
07MFAYT01-23	667-6 (1910)	Sutherland	22.96	1.64	6.83	15.09	0.82	47.68
07MFAYT01-24	667-8 (1923)	Sutherland	23.37	1.71	6.76	15.03	1.17	43.82
07MFAYT01-25	727-6 (1903)	Sutherland	22.18	1.63	6.60	15.82	1.29	44.88
07MFAYT01-26	712-1 (1934)	Sutherland	22.44	1.61	7.02	15.76	1.30	46.36
07MFAYT01-27	712-2 (1920)	Sutherland	24.11	1.44	6.74	15.91	0.71	46.02
07MFAYT01-28	712-3 (1911)	Sutherland	23.34	1.50	7.30	15.56	1.42	45.12
07MFAYT01-29	712-4 (1918)	Sutherland	23.72	1.53	7.19	15.60	1.08	45.57
07MFAYT01-30	712-5 (1907)	Sutherland	23.72	1.53	7.26	15.85	0.93	47.49
07MFAYT01-31	712-6 (1926)	Sutherland	23.58	1.62	6.58	15.39	1.01	44.85
07MFAYT01-32	675-1 (1928)	Sutherland	22.26	1.35	7.10	15.27	1.02	45.59
07MFAYT01-33	675-3 (1909)	Sutherland	22.88	1.56	7.01	15.10	1.20	46.23
07MFAYT01-34	680-2 (1905)	Sutherland	23.12	1.70	6.87	15.52	1.01	44.01
07MFAYT01-35	680-5 (1914)	Sutherland	22.82	1.56	6.80	15.27	0.93	44.03

07MFAYT01-36	716-5 (1925)	Sutherland	23.38	1.77	7.09	15.43	1.10	45.16
07MFAYT02-01	Cutlass (2301)	Sutherland	21.02	1.58	6.52	15.95	1.07	48.94
07MFAYT02-2	WM-10 (2311)	Sutherland	23.57	1.52	6.67	15.47	1.24	44.45
07MFAYT02-3	Rambo (2316) (small sam	Sutherland	22.02	1.85	6.60	14.90	0.99	45.94
07MFAYT02-4	MFR042 (2313)	Sutherland	23.32	1.77	6.68	14.94	1.13	44.78
07MFAYT02-5	CDC Dundurn (2302)	Sutherland	22.80	1.64	7.57	17.19	0.81	43.36
07MFAYT02-6	CDC Rocket (2309)	Sutherland	22.41	1.39	7.50	16.49	0.89	41.62
07MFAYT02-7	716-6 (2303)	Sutherland	23.06	1.74	6.34	14.77	0.88	43.08
07MFAYT02-8	716-12 (2308)	Sutherland	23.08	1.62	6.47	15.38	1.14	43.71
07MFAYT02-9	716-19 (2324)	Sutherland	23.32	1.44	6.91	15.53	0.99	44.91
07MFAYT02-10	669-8 (2304)	Sutherland	22.91	1.66	6.48	14.83	0.99	44.40
07MFAYT02-11	669-14 (2319)	Sutherland	24.04	1.78	6.35	15.17	0.93	44.05
07MFAYT02-12	669-15 (2312)	Sutherland	24.26	1.72	6.76	15.64	1.18	41.95
07MFAYT02-13	673-2 (2305)	Sutherland	23.94	1.65	6.50	15.38	0.96	44.59
07MFAYT02-14	673-11 (2320)	Sutherland	23.63	1.62	6.47	15.56	1.18	44.33
07MFAYT02-15	673-14 (2323)	Sutherland	23.65	1.54	6.66	15.29	1.07	41.84
07MFAYT02-16	673-15 (2306)	Sutherland	24.21	1.58	6.64	15.45	0.89	43.94
07MFAYT02-17	673-16 (2321)	Sutherland	24.13	1.69	6.39	15.42	1.15	41.97
07MFAYT02-18	673-18 (2317)	Sutherland	24.23	1.54	6.66	15.57	1.13	42.01
07MFAYT02-19	669-17 (2315)	Sutherland	22.90	1.52	6.45	15.07	0.99	44.50
07MFAYT02-20	725-1 (2318)	Sutherland	23.92	1.43	6.82	15.46	1.33	46.67
07MFAYT02-21	2242-7 (2314)	Sutherland	24.33	0.99	7.00	16.63	0.47	42.46
07MFAYT02-22	2242-8 (2310)	Sutherland	21.88	1.13	7.14	17.31	0.97	48.23
07MFAYT02-23	2274-23 (2307)	Sutherland	24.50	1.58	6.52	16.80	0.78	47.36
07MFAYT02-24	2274-33 (2322)	Sutherland	20.59	1.84	6.38	16.06	1.09	51.83
07MFAYT01-01	Cutlass (2001)	Rosthern	22.91	1.35	7.23	17.07	1.12	47.78
07MFAYT01-02	WM-10 (2005)	Rosthern	22.94	1.31	7.53	17.38	0.91	47.16
07MFAYT01-03	Rambo (2034)	Rosthern	22.30	1.57	6.93	15.66	1.02	43.40
07MFAYT01-04	MFR042 (2032)	Rosthern	23.16	1.33	7.42	16.91	1.15	45.46
07MFAYT01-05	672-3 (2004)	Rosthern	23.96	1.27	7.23	16.38	0.99	42.07
07MFAYT01-06	672-4 (2027)	Rosthern	22.51	1.37	7.39	16.78	1.22	47.19
07MFAYT01-07	676-2 (2002)	Rosthern	22.05	1.00	7.59	17.44	1.10	41.75
07MFAYT01-08	676-11 (2008)	Rosthern	23.58	1.14	7.57	16.76	1.06	44.31
07MFAYT01-09	666-7 (2026)	Rosthern	24.09	1.29	7.30	15.78	1.06	41.91

07MFAYT01-10	666-11 (2017)	Rosthern	24.03	1.36	7.21	16.41	1.19	46.41
07MFAYT01-11	666-13 (2022)	Rosthern	23.34	1.31	7.40	16.34	1.09	43.66
07MFAYT01-12	666-15 (2007)	Rosthern	23.89	1.06	7.85	17.05	1.10	41.90
07MFAYT01-13	674-7 (2035)	Rosthern	23.45	1.14	7.08	16.26	1.06	40.52
07MFAYT01-14	691-2 (2019)	Rosthern	22.40	1.26	6.91	16.93	1.05	45.52
07MFAYT01-15	642-3 (2033)	Rosthern	23.06	1.28	7.33	16.92	1.00	43.00
07MFAYT01-16	642-4 (2029)	Rosthern	23.51	1.46	7.02	15.34	0.87	43.10
07MFAYT01-17	642-5 (2009)	Rosthern	22.66	1.78	6.80	15.21	1.02	44.27
07MFAYT01-18	668-6 (2003)	Rosthern	23.66	1.39	7.28	16.26	1.22	43.91
07MFAYT01-19	668-7 (2016)	Rosthern	24.41	1.57	6.90	15.37	0.82	43.02
07MFAYT01-20	720-2 (2012)	Rosthern	23.12	1.15	7.46	17.14	1.30	43.72
07MFAYT01-21	679-11 (2024)	Rosthern	22.61	1.52	7.00	15.38	0.75	43.60
07MFAYT01-22	686-5 (2036)	Rosthern	23.87	1.38	7.24	15.78	0.80	42.38
07MFAYT01-23	667-6 (2013)	Rosthern	22.83	1.53	7.04	15.37	1.02	43.94
07MFAYT01-24	667-8 (2006)	Rosthern	23.99	1.44	6.86	15.96	0.91	42.90
07MFAYT01-25	727-6 (2025)	Rosthern	23.22	1.44	6.95	16.17	1.13	43.92
07MFAYT01-26	712-1 (2021)	Rosthern	23.91	1.25	7.59	16.14	0.92	43.81
07MFAYT01-27	712-2 (2015)	Rosthern	24.87	1.39	7.03	15.26	0.85	42.39
07MFAYT01-28	712-3 (2011)	Rosthern	25.23	1.33	7.32	15.72	0.95	44.16
07MFAYT01-29	712-4 (2031)	Rosthern	23.74	1.39	7.00	15.37	1.04	42.64
07MFAYT01-30	712-5 (2028)	Rosthern	24.13	1.26	7.25	16.28	0.81	43.47
07MFAYT01-31	712-6 (2023)	Rosthern	24.44	1.44	6.74	15.26	0.69	43.23
07MFAYT01-32	675-1 (2018)	Rosthern	21.59	1.06	7.26	17.21	1.02	42.38
07MFAYT01-33	675-3 (2014)	Rosthern	21.59	1.46	6.96	15.53	1.21	43.11
07MFAYT01-34	680-2 (2030)	Rosthern	23.10	1.35	7.01	16.79	1.09	42.13
07MFAYT01-35	680-5 (2010)	Rosthern	23.27	1.41	7.12	15.99	1.00	42.56
07MFAYT01-36	716-5 (2020)	Rosthern	23.87	1.52	7.12	16.02	1.30	41.91
07MFAYT02-01	Cutlass (2409)	Rosthern	22.62	1.88	6.91	14.78	0.81	46.36
07MFAYT02-01	Cutlass (2409) repeat	Rosthern	22.43	1.69	7.07	16.64	1.15	43.71
07MFAYT02-02	WM-10 (2422)	Rosthern	22.20	1.91	6.58	14.84	0.87	46.00
07MFAYT02-03	Rambo (2420)	Rosthern	20.94	1.71	6.86	15.24	0.93	44.61
07MFAYT02-04	MFR042 (2406)	Rosthern	22.79	1.37	6.90	16.12	0.91	40.96
07MFAYT02-05	CDC Dundurn (2417)	Rosthern	21.87	1.53	7.79	17.98	1.04	43.78
07MFAYT02-06	CDC Rocket (2404)	Rosthern	22.65	0.91	7.43	17.12	0.74	40.43
07MFAYT02-07	716-6 (2415)	Rosthern	23.12	1.55	7.13	16.04	0.89	43.09

07MFAYT02-08	716-12 (2412)	Rosthern	22.71	1.76	6.85	15.31	0.97	42.60
07MFAYT02-09	716-19 (2421)	Rosthern	23.54	1.58	6.92	15.74	1.19	42.50
07MFAYT02-10	669-8 (2408)	Rosthern	22.43	1.43	7.33	15.87	1.18	43.17
07MFAYT02-11	669-14 (2403)	Rosthern	23.28	1.56	6.92	15.65	1.26	42.95
07MFAYT02-12	669-15 (2414)	Rosthern	22.43	1.54	7.24	16.33	0.97	43.71
07MFAYT02-13	673-2 (2423)	Rosthern	23.34	1.49	7.12	16.27	1.16	42.58
07MFAYT02-14	673-11 (2419)	Rosthern	22.37	1.29	7.52	16.46	0.95	43.57
07MFAYT02-15	673-14 (2410)	Rosthern	22.90	1.47	7.07	15.79	1.19	42.68
07MFAYT02-16	673-15 (2401)	Rosthern	23.16	1.25	7.28	16.55	1.35	40.60
07MFAYT02-17	673-16 (2405)	Rosthern	22.50	1.41	6.91	15.60	1.03	44.54
07MFAYT02-18	673-18 (2418)	Rosthern	22.02	1.42	6.96	16.23	0.96	46.13
07MFAYT02-19	669-17 (2424)	Rosthern	23.31	1.27	7.23	16.45	1.14	41.05
07MFAYT02-20	725-1 (2411)	Rosthern	23.81	1.40	6.74	15.81	0.95	41.82
07MFAYT02-21	2242-7 (2402)	Rosthern	21.72	0.86	7.57	17.43	1.24	41.86
07MFAYT02-22	2242-8 (2407)	Rosthern	21.41	0.97	7.37	17.32	0.66	43.32
07MFAYT02-23	2274-23 (2413)	Rosthern	22.06	1.18	7.06	17.26	0.92	50.40
07MFAYT02-24	2274-33 (2416)	Rosthern	21.07	1.54	6.50	16.87	1.00	48.19

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07PCYTA-01	Eclipse (103)	Sutherland	21.13	1.80	6.66	15.73	0.85	48.00
07PCYTA-02	Cutlass (107)	Sutherland	19.68	1.47	6.76	16.60	0.39	48.65
07PCYTA-03	CDC Striker (128)	Sutherland	21.06	1.60	6.70	16.35	0.40	47.44
07PCYTA-04	Cooper (115)	Sutherland	20.96	1.49	6.50	15.91	0.74	45.37
07PCYTA-05	JS 01114-22 (113)	Sutherland	22.82	1.46	6.43	15.80	0.76	46.40
07PCYTA-06	LAN1101 (116)	Sutherland	22.81	1.44	6.75	15.05	0.47	45.45
07PCYTA-07	LAN4188 (125)	Sutherland	18.74	1.81	6.18	15.70	0.85	48.48
07PCYTA-08	LAN4190 (105)	Sutherland	18.85	1.63	6.51	16.05	0.78	48.95
07PCYTA-09	LAN4194 (123)	Sutherland	20.78	1.55	6.52	14.89	0.64	48.18
07PCYTA-10	CDC 1767-18 (114)	Sutherland	22.24	1.31	7.47	16.78	0.66	46.86
07PCYTA-11	CDC 1767-23 (120)	Sutherland	22.21	1.42	7.27	16.44	0.68	45.42
07PCYTA-12	CDC 1812-5 (127)	Sutherland	22.74	1.42	7.12	16.21	0.72	45.43
07PCYTA-13	CDC 1770-3 (108)	Sutherland	22.49	1.44	7.18	16.55	0.35	46.04
07PCYTA-14	CDC 1687-9 (110)	Sutherland	23.11	1.40	7.18	15.57	0.74	44.69
07PCYTA-15	CDC 1763-26 (119)	Sutherland	19.96	1.55	6.45	15.50	0.92	48.31
07PCYTA-16	CDC 1897-14 (126)	Sutherland	21.38	1.44	6.65	16.95	0.58	48.63
07PCYTA-17	CDC 1897-3 (104)	Sutherland	21.04	1.52	6.74	16.50	0.58	47.47
07PCYTA-18	CDC 1908-28 (121)	Sutherland	22.39	1.55	6.83	16.46	0.90	46.38
07PCYTA-19	CDC 1872-207 (106)	Sutherland	22.86	1.31	6.98	15.78	0.79	44.34
07PCYTA-20	CDC 1719-2 (117)	Sutherland	21.75	1.58	6.98	15.54	0.91	45.42
07PCYTA-21	CDC 1989-204 (109)	Sutherland	21.10	1.60	7.10	15.78	0.73	47.68
07PCYTA-22	CDC 1932-201 (111)	Sutherland	21.65	1.62	6.95	15.68	0.79	44.62
07PCYTA-23	CDC 1902-214 (124)	Sutherland	20.67	1.49	6.74	16.16	0.78	45.96
07PCYTA-24	MP 1850 (112)	Sutherland	18.25	1.49	6.45	16.31	0.96	49.78
07PCYTA-25	MP 1852 (102)	Sutherland	20.77	1.66	6.49	15.54	0.83	48.98
07PCYTA-26	MP 1853 (118)	Sutherland	18.60	1.72	6.80	16.34	0.92	49.16
07PCYTA-27	MP 1855 (122)	Sutherland	20.12	1.57	6.45	17.09	0.55	49.15
07PCYTA-28	MP 1856 (101)	Sutherland	19.57	1.58	6.85	17.10	0.67	49.56
07PCYTB-01	ECLIPSE (402)	Sutherland	20.29	1.65	6.55	16.46	1.10	45.70
07PCYTB-02	CUTLASS (420)	Sutherland	19.86	1.58	6.56	16.09	0.74	49.12
07PCYTB-03	CDC STRIKER (423)	Sutherland	22.70	1.67	6.49	15.02	0.89	44.77
07PCYTB-04	COOPER (415)	Sutherland	19.86	1.39	6.70	16.00	0.77	44.88
07PCYTB-05	JS02113-01 (407)	Sutherland	21.25	1.21	6.31	16.27	0.90	46.67
07PCYTB-06	APCM9.71.13 (401)	Sutherland	21.03	1.73	6.25	16.03	0.89	48.64

07PCYTB-07	SWD5014 (406)	Sutherland	18.74	1.42	6.98	17.71	1.01	50.71
07PCYTB-08	IN 4176 (414)	Sutherland	21.46	1.82	6.29	14.83	0.70	47.55
07PCYTB-09	TN 4179 (403)	Sutherland	19.84	1.58	6.55	15.22	0.77	48.96
07PCYTB-10	TN 4179 (412)	Sutherland	24.39	1.27	6.85	15.43	0.68	43.86
07PCYTB-11	LAN4189 (427)	Sutherland	21.31	1.67	5.88	16.16	0.70	48.17
07PCYTB-12	LAN4191 (421)	Sutherland	19.81	1.75	6.14	15.79	0.69	47.59
07PCYTB-13	LAN4192 (405)	Sutherland	19.55	1.78	6.39	16.85	0.78	47.83
07PCYTB-14	LAN4193 (413)	Sutherland	18.66	1.73	6.46	14.89	1.17	46.22
07PCYTB-15	CDC 1759-6 (425)	Sutherland	19.65	1.45	6.42	15.81	0.99	46.89
07PCYTB-16	CDC 1659-13 (426)	Sutherland	21.80	1.40	6.42	16.19	0.52	47.76
07PCYTB-17	CDC 1734-5 (409)	Sutherland	20.86	1.43	6.33	16.28	0.67	48.65
07PCYTB-18	CDC 1657-5 (428)	Sutherland	21.25	1.60	6.43	16.06	0.57	47.16
07PCYTB-19	CDC 1749-8 (417)	Sutherland	20.99	1.74	6.29	15.70	0.44	47.08
07PCYTB-20	CDC1759-30 (424)	Sutherland	19.77	1.54	6.19	15.23	0.74	49.01
07PCYTB-21	CDC2105-13 (416)	Sutherland	22.11	1.44	6.64	16.41	0.73	48.00
07PCYTB-22	MP 1844 (418)	Sutherland	19.29	1.65	6.47	15.94	0.79	49.75
07PCYTB-23	MP 1845 (410)	Sutherland	18.62	1.45	6.60	17.35	0.98	48.53
07PCYTB-24	MP 1846 (422)	Sutherland	20.72	1.71	6.45	14.93	0.95	45.67
07PCYTB-25	MP 1851 (411)	Sutherland	21.74	1.55	6.44	15.91	0.68	48.07
07PCYTB-26	MP 1854 (419)	Sutherland	21.09	1.63	6.02	14.88	0.96	46.77
07PCYTB-27	MP 1857 (408)	Sutherland	19.91	1.60	6.42	15.49	0.63	48.27
07PCYTB-28	MP 1858 (404)	Sutherland	20.00	1.62	6.02	15.72	1.03	49.01
07PCYTA-01	Eclipse (103)	Outlook	23.38	1.28	6.44	15.61	0.89	43.77
07PCYTA-02	Cutlass (102)	Outlook	22.39	1.11	7.01	16.13	0.59	45.60
07PCYTA-03	CDC Striker (107)	Outlook	23.60	1.27	6.94	16.52	0.90	44.87
07PCYTA-04	Cooper (110)	Outlook	23.83	1.02	6.49	15.49	0.90	43.01
07PCYTA-05	JS01114-22 (123)	Outlook	23.30	1.08	6.45	15.77	0.63	44.27
07PCYTA-06	IAN 1101(105)	Outlook	21.82	1.40	6.74	15.56	0.68	45.93
07PCYTA-07	IAN 4188 (114)	Outlook	21.77	1.44	6.33	16.10	0.81	46.44
07PCYTA-08	IAN 4190 (115)	Outlook	22.36	1.47	6.59	16.01	0.80	47.08
07PCYTA-09	IAN 4194 (104)	Outlook	22.59	1.10	6.44	15.60	0.82	47.34
07PCYTA-10	CDC 1767-18 (113)	Outlook	22.32	1.14	7.31	16.47	0.90	46.57
07PCYTA-11	CDC 1767-23 (111)	Outlook	23.87	0.89	7.14	17.39	0.76	44.54
07PCYTA-12	CDC 1812-5 (119)	Outlook	24.15	1.01	7.09	16.73	0.79	44.32
07PCYTA-13	CDC 1770-3(109)	Outlook	23.09	1.01	7.09	16.54	0.69	44.99

07PCYTA-14	CDC 1687-9(117)	Outlook	23.91	0.93	7.44	17.04	0.59	46.09
07PCYTA-15	CDC 1763-26 (120)	Outlook	22.60	1.13	6.46	15.72	0.50	48.87
07PCYTA-16	CDC 1897-14 (126)	Outlook	22.95	0.79	7.13	17.13	0.77	46.49
07PCYTA-17	CDC 1897-3 (121)	Outlook	21.96	0.84	6.98	16.96	0.71	47.43
07PCYTA-18	CDC 1908-28 (108)	Outlook	26.21	1.23	7.23	16.84	0.71	46.23
07PCYTA-19	CDC 1872-207 (128)	Outlook	24.67	1.14	7.23	16.84	0.92	46.09
07PCYTA-20	CDC 1719-2 (112)	Outlook	25.51	1.34	7.47	16.95	0.98	45.82
07PCYTA-21	CDC 1989-204 (124)	Outlook	23.69	1.82	6.42	15.12	1.00	41.12
07PCYTA-22	CDC 1932-201 (106)	Outlook	24.92	1.29	7.45	16.97	0.98	45.34
07PCYTA-23	CDC 1902-214 (118)	Outlook	24.42	1.42	7.14	15.92	0.66	44.85
07PCYTA-24	MP1850 (122)	Outlook	22.66	1.52	7.11	16.74	0.85	49.42
07PCYTA-25	MP1852 (116)	Outlook	26.46	1.45	7.06	16.35	0.68	46.68
07PCYTA-26	MP1853 (212) from 2nd rep	Outlook	22.67	1.36	7.24	16.84	1.06	48.45
07PCYTA-27	MP1855 (125)	Outlook	25.93	1.34	7.08	16.69	0.72	46.10
07PCYTA-28	MP1856 (127)	Outlook	23.31	1.22	7.77	17.14	1.14	48.10
07PCYTB-01	Eclipse (402)	Outlook	25.71	1.46	7.17	16.45	0.84	46.20
07PCYTB-02	Cutlass (401)	Outlook	24.12	1.16	7.88	17.44	0.14	50.44
07PCYTB-03	CDC Striker (415)	Outlook	25.56	1.46	7.04	16.04	0.72	45.24
07PCYTB-04	Cooper (421)	Outlook	25.12	1.25	6.94	15.88	0.91	45.64
07PCYTB-05	JS02113-01 (403)	Outlook	27.10	1.17	6.57	15.80	0.92	46.53
07PCYTB-06	APCM 9.71.13 (411)	Outlook	24.85	1.54	6.93	15.08	0.84	49.03
07PCYTB-07	SWD5014 (408)	Outlook	23.91	1.39	7.18	17.32	1.13	47.49
07PCYTB-08	IN4176 (426)	Outlook	24.93	1.45	7.00	15.69	0.72	48.27
07PCYTB-09	IN4179 (418)	Outlook	23.61	1.65	6.56	14.86	1.13	45.86
07PCYTB-10	LAN 4186 (410)	Outlook	27.34	1.15	7.40	16.26	0.79	42.65
07PCYTB-11	LAN 4189 (414)	Outlook	25.33	1.49	7.00	16.90	1.00	47.18
07PCYTB-12	LAN 4191 (404)	Outlook	23.51	1.77	6.48	15.04	0.72	48.27
07PCYTB-13	LAN 4192 (419)	Outlook	23.64	1.74	6.36	15.50	0.84	48.31
07PCYTB-14	LAN 4193 (425)	Outlook	23.16	1.58	7.00	15.30	1.09	47.25
07PCYTB-15	CDC 1759-6 (413)	Outlook	25.64	1.52	6.94	15.07	0.85	47.29
07PCYTB-16	CDC 1659-13 (417)	Outlook	23.93	1.45	6.76	15.36	1.05	49.79
07PCYTB-17	CDC 1734-5 (416)	Outlook	24.62	1.76	6.43	14.79	0.91	46.39
07PCYTB-18	CDC 1657-5 (420)	Outlook	24.15	1.67	6.88	14.98	0.87	46.58
07PCYTB-19	CDC 1749-8 (407)	Outlook	24.45	1.52	6.91	15.89	0.94	46.66
07PCYTB-20	CDC 1759-30 (405)	Outlook	23.81	1.35	7.10	16.17	1.17	48.63

07PCYTB-21	CDC 2105-13 (424)	Outlook	25.78	1.37	7.23	16.14	0.80	47.66
07PCYTB-22	MP1844 (406)	Outlook	22.43	1.43	7.14	16.75	1.15	49.24
07PCYTB-23	MP1845 (422)	Outlook	23.57	1.27	6.98	16.49	1.18	47.63
07PCYTB-24	MP1846 (409)	Outlook	23.99	1.27	7.28	16.21	1.20	47.51
07PCYTB-25	MP1851 (427)	Outlook	25.13	1.28	6.89	15.81	0.90	47.81
07PCYTB-26	MP1854 (428)	Outlook	25.47	1.47	6.62	15.66	0.74	50.56
07PCYTB-27	MP1857(423)	Outlook	26.34	1.38	6.99	15.84	0.99	45.89
07PCYTB-28	MP1858(412)	Outlook	24.82	1.28	6.57	15.86	0.95	48.28

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07PEYT01-01	CUTLASS (102)	Sutherland	19.44	1.75	6.50	16.25	0.71	47.42
07PEYT01-02	ECLIPSE (135)	Sutherland	20.29	1.77	6.23	15.33	0.57	47.93
07PEYT01-03	CDC Meadow (125)	Sutherland	19.57	1.52	6.44	16.16	0.69	46.02
07PEYT01-04	CDC STRIKER (101)	Sutherland	22.35	1.78	6.56	15.41	0.62	43.05
07PEYT01-05	CDC ROCKET (108)	Sutherland	18.44	1.09	7.92	16.65	0.45	40.14
07PEYT01-06	1329-12 (111)	Sutherland	20.33	1.78	6.33	15.96	0.76	45.87
07PEYT01-07	2105-14 (120)	Sutherland	20.46	1.69	6.44	15.72	0.79	48.29
07PEYT01-08	1897-10 (105)	Sutherland	21.85	1.52	6.44	15.95	0.39	45.64
07PEYT01-09	1782-1 (110)	Sutherland	20.42	1.53	6.41	15.95	0.79	46.59
07PEYT01-10	1857-9 (107)	Sutherland	21.00	1.79	6.11	15.19	0.66	48.97
07PEYT01-11	1857-7 (112)	Sutherland	21.35	1.74	6.06	15.08	0.49	47.46
07PEYT01-12	1861-16 (104)	Sutherland	19.89	1.65	6.16	15.65	0.90	47.67
07PEYT01-13	1895-4 (126)	Sutherland	21.37	1.62	6.04	15.72	0.61	48.27
07PEYT01-14	1782-3 (122)	Sutherland	19.96	1.60	6.79	16.57	0.54	50.71
07PEYT01-15	1897-2 (130)	Sutherland	20.97	1.37	6.61	17.51	0.39	47.06
07PEYT01-16	1863-11 (118)	Sutherland	19.76	1.64	6.39	15.01	0.76	46.35
07PEYT01-17	2032-9 (132)	Sutherland	18.72	1.56	6.66	16.68	0.47	47.60
07PEYT01-18	1872-209 (116)	Sutherland	21.78	1.65	7.15	15.64	0.56	46.07
07PEYT01-19	1819-2 (124)	Sutherland	18.83	1.06	7.62	17.14	0.44	43.12
07PEYT01-20	2034-17 (119)	Sutherland	20.10	1.52	6.39	16.39	0.70	46.30
07PEYT01-21	1904-213 (114)	Sutherland	21.61	1.66	6.62	15.15	0.37	44.79
07PEYT01-22	1816-4 (129)	Sutherland	21.03	0.74	7.68	17.60	0.34	40.92
07PEYT01-23	2098-211 (136)	Sutherland	20.63	1.39	7.14	17.49	0.74	41.11
07PEYT01-24	2098-208 (117)	Sutherland	20.24	1.47	7.24	17.30	0.60	43.98
07PEYT01-25	2113-208 (106)	Sutherland	22.17	1.62	6.87	16.09	0.68	45.12
07PEYT01-26	1932-303 (109)	Sutherland	20.41	1.65	6.46	15.69	0.86	45.03
07PEYT01-27	1992-209 (134)	Sutherland	22.74	1.58	6.67	16.03	0.65	45.76
07PEYT01-28	1919-231 (127)	Sutherland	18.28	0.89	7.87	17.17	0.52	39.95
07PEYT01-29	2066-24 (123)	Sutherland	19.68	1.74	6.38	15.14	0.64	46.77
07PEYT01-30	2025-7 (115)	Sutherland	20.06	1.61	6.62	15.73	0.70	45.80
07PEYT01-31	2034-3 (121)	Sutherland	20.22	1.67	6.85	16.45	0.56	47.58
07PEYT01-32	2065-35 (113)	Sutherland	20.27	1.70	6.01	15.54	0.73	47.05
07PEYT01-33	2034-5 (133)	Sutherland	18.39	1.54	6.69	16.34	0.74	49.73
07PEYT01-34	2074-23 (131)	Sutherland	20.98	1.59	5.76	16.34	1.12	45.81
07PEYT01-35	2070-2 (103)	Sutherland	19.73	1.99	6.20	16.16	0.76	47.94

07PEYT01-36	2075-18 (128)	Sutherland	19.61	1.72	6.55	16.23	0.54	47.13
07PEYT02-01	Cutlass (1033)	Sutherland	20.17	1.70	6.17	16.04	0.47	48.00
07PEYT02-02	Eclipse (1030)	Sutherland	19.89	1.72	6.49	15.41	0.66	45.26
07PEYT02-03	CDC Meadow (1008)	Sutherland	19.03	1.53	6.61	16.76	0.63	46.67
07PEYT02-04	2081-10 (1001)	Sutherland	19.77	1.76	6.17	15.76	0.67	47.37
07PEYT02-05	2070-60 (1026)	Sutherland	20.23	1.65	6.44	16.50	0.65	47.30
07PEYT02-06	2068-10 (1035)	Sutherland	20.73	1.65	6.36	16.12	0.65	46.04
07PEYT02-07	2070-13 (1004)	Sutherland	20.80	1.73	6.34	15.79	0.78	45.40
07PEYT02-08	2083-2 (1018)	Sutherland	22.08	1.58	6.25	15.52	0.55	45.51
07PEYT02-09	2096-11 (1010)	Sutherland	20.23	1.52	6.16	16.01	0.67	49.74
07PEYT02-10	2096-7 (1006)	Sutherland	20.72	1.43	6.68	15.87	0.48	46.92
07PEYT02-11	2096-9 (1032)	Sutherland	21.10	1.49	6.25	16.34	0.38	48.57
07PEYT02-12	2089-11 (1019)	Sutherland	20.84	1.78	6.13	16.49	0.82	47.22
07PEYT02-13	2093-22 (1029)	Sutherland	19.51	1.79	6.41	15.46	0.64	51.04
07PEYT02-14	2087-6 (1016)	Sutherland	20.24	1.72	6.45	15.67	0.67	47.09
07PEYT02-15	2094-3 (1011)	Sutherland	21.59	1.69	6.98	15.57	0.84	45.51
07PEYT02-16	2140-1 (1023)	Sutherland	19.80	1.72	6.35	15.73	0.42	48.73
07PEYT02-17	2164-13 (1009)	Sutherland	18.74	1.68	6.29	15.87	0.35	49.31
07PEYT02-18	2157-5 (1005)	Sutherland	19.60	1.61	6.33	16.36	0.83	46.26
07PEYT02-19	2175-14 (1020)	Sutherland	19.59	1.61	6.10	15.72	0.64	47.94
07PEYT02-20	2179-16 (1025)	Sutherland	19.69	1.53	6.51	15.93	0.66	48.05
07PEYT02-21	2178-11 (1007)	Sutherland	19.53	1.62	6.59	15.60	0.80	46.87
07PEYT02-22	2179-19 (1027)	Sutherland	19.25	1.48	6.25	16.53	0.63	48.15
07PEYT02-23	2186-13 (1013)	Sutherland	19.48	1.59	6.63	17.21	0.49	49.20
07PEYT02-24	2186-10 (1002)	Sutherland	22.31	1.57	6.07	15.71	0.78	46.07
07PEYT02-25	2203-13 (1031)	Sutherland	19.69	1.73	6.02	15.98	0.48	48.99
07PEYT02-26	2186-11 (1012)	Sutherland	20.69	1.53	6.33	16.20	0.41	48.31
07PEYT02-27	2203-23 (1028)	Sutherland	17.70	1.65	6.44	16.43	0.65	48.24
07PEYT02-28	2203-29 (1036)	Sutherland	19.21	1.62	6.24	16.52	0.85	49.37
07PEYT02-29	2181-3 (1017)	Sutherland	19.47	1.49	6.45	17.22	0.52	49.88
07PEYT02-30	2203-34 (1014)	Sutherland	19.28	1.49	6.44	16.88	0.88	47.50
07PEYT02-31	2203-8 (1021)	Sutherland	19.44	1.56	6.25	17.09	0.87	49.46
07PEYT02-32	2204-13 (1034)	Sutherland	21.43	1.66	6.53	15.77	0.54	47.25
07PEYT02-33	2219-13 (1015)	Sutherland	19.52	1.53	6.63	16.57	0.28	48.98
07PEYT02-34	2254-2 (1024)	Sutherland	21.45	1.51	6.63	16.71	0.56	48.10

07PEYT02-35	2259-5 (1003)	Sutherland	17.87	1.56	6.60	16.57	1.02	49.05
07PEYT02-36	2307-10 (1022)	Sutherland	20.24	1.51	6.61	17.21	0.50	49.41
07PEYT03-01	Cutlass (1930)	Sutherland	20.02	1.62	6.46	16.48	0.54	48.64
07PEYT03-02	Eclipse (1903)	Sutherland	20.85	1.71	6.26	15.83	0.61	47.40
07PEYT03-03	CDC Dundurn (1933)	Sutherland	21.58	1.45	7.31	17.87	0.55	44.66
07PEYT03-04	CDC Striker (1901)	Sutherland	22.55	1.82	6.69	15.52	0.89	43.50
07PEYT03-05	2307-17 (1907)	Sutherland	21.31	1.49	6.47	16.77	0.71	47.10
07PEYT03-06	2303-11 (1916)	Sutherland	20.09	1.53	5.68	16.16	0.86	47.89
07PEYT03-07	2274-6 (1935)	Sutherland	20.81	1.46	6.28	16.47	0.91	48.12
07PEYT03-08	2114-1 (1931)	Sutherland	21.50	1.71	6.79	15.15	1.16	43.98
07PEYT03-09	2046-4 (1911)	Sutherland	21.81	1.65	6.19	15.50	0.70	43.99
07PEYT03-10	2046-7 (1923)	Sutherland	23.84	1.62	6.54	15.08	0.68	44.23
07PEYT03-11	2042-4 (1934)	Sutherland	21.31	1.42	6.74	15.83	0.70	46.13
07PEYT03-12	2127-6(1909)	Sutherland	22.22	1.62	6.74	15.08	0.66	43.14
07PEYT03-13	2147-3 (1926)	Sutherland	22.94	1.49	6.74	15.58	0.65	44.62
07PEYT03-14	2195-17 (1922)	Sutherland	20.91	1.43	7.05	16.02	0.72	45.87
07PEYT03-15	2123-10 (1915)	Sutherland	21.50	1.65	7.24	15.79	0.51	45.26
07PEYT03-16	2123-12 (1924)	Sutherland	21.94	1.50	6.49	15.21	0.66	44.89
07PEYT03-17	2194-8 (1902)	Sutherland	21.30	1.52	6.58	15.87	0.85	43.93
07PEYT03-18	2235-4 (1921)	Sutherland	20.65	1.57	6.42	15.79	1.11	44.37
07PEYT03-19	2198-2 (1912)	Sutherland	21.74	1.59	6.84	15.04	0.82	44.96
07PEYT03-20	2231-1 (1904)	Sutherland	20.98	1.60	6.67	16.02	0.94	42.62
07PEYT03-21	2207-2 (1925)	Sutherland	22.52	1.55	6.49	15.48	0.78	44.55
07PEYT03-22	2198-4 (1932)	Sutherland	22.06	1.61	6.77	15.38	0.65	43.98
07PEYT03-23	2198-3 (1908)	Sutherland	22.23	1.45	6.84	15.85	0.67	43.83
07PEYT03-24	2201-3 (1906)	Sutherland	20.87	1.63	6.47	15.58	1.03	44.78
07PEYT03-25	2230-27 (1919)	Sutherland	21.53	1.54	6.68	15.15	0.71	43.53
07PEYT03-26	2201-8 (1928)	Sutherland	20.59	1.52	6.40	15.57	0.76	42.51
07PEYT03-27	2237-7 (1905)	Sutherland	21.11	1.48	6.71	15.82	0.71	44.12
07PEYT03-28	2098-4 (1918)	Sutherland	21.16	1.55	7.52	18.50	0.80	43.60
07PEYT03-29	2098-6 (1913)	Sutherland	20.64	1.38	7.14	17.28	0.61	43.23
07PEYT03-30	2069-5 (1920)	Sutherland	22.71	1.68	7.32	15.49	0.89	44.82
07PEYT03-31	2294-4 (1910)	Sutherland	22.51	1.52	7.01	15.25	0.58	44.49
07PEYT03-32	2270-13 (1929)	Sutherland	20.30	1.87	6.63	15.75	0.88	45.08
07PEYT03-33	2309-13 (1927)	Sutherland	20.58	1.61	6.49	16.71	0.70	48.45

07PEYT03-34	2098-20 (1914)	Sutherland	20.80	1.49	7.16	18.81	0.70	43.94
07PEYT03-35	2110-11 (1917)	Sutherland	21.29	1.59	7.27	17.17	0.59	43.52
07PEYT03-36	2110-4 (1936)	Sutherland	20.60	1.60	7.43	17.33	0.77	40.91
07PEYT01-01	Cutlass (617)	Rouleau	19.87	2.14	5.82	14.55	0.75	42.94
07PEYT01-02	Eclipse (636)	Rouleau	19.35	2.25	5.61	13.79	1.06	42.72
07PEYT01-03	CDC Meadow (612)	Rouleau	17.60	2.09	5.62	15.70	1.11	43.50
07PEYT01-04	CDC Striker (631)	Rouleau	21.95	2.25	5.78	13.80	0.91	42.43
07PEYT01-05	CDC Rocket (623)	Rouleau	20.65	1.79	6.90	14.99	0.48	40.23
07PEYT01-06	1329-12 (601)	Rouleau	19.01	2.22	5.24	14.70	1.04	45.34
07PEYT01-07	2105-14 (619)	Rouleau	19.07	2.15	5.63	14.73	0.72	44.80
07PEYT01-08	1897-10 (615)	Rouleau	18.59	2.24	5.63	14.38	0.85	41.55
07PEYT01-09	1782-1 (608)	Rouleau	18.87	2.10	5.97	14.93	0.77	44.00
07PEYT01-10	1857-9 (633)	Rouleau	21.35	2.24	5.26	14.37	0.55	43.15
07PEYT01-11	1857-7 (627)	Rouleau	20.58	2.20	5.41	13.94	0.81	41.77
07PEYT01-12	1861-16 (606)	Rouleau	21.45	2.22	5.42	13.91	0.81	42.87
07PEYT01-13	1895-4 (620)	Rouleau	19.88	2.09	5.41	14.64	0.66	46.23
07PEYT01-14	1782-3 (604)	Rouleau	20.23	2.08	5.77	15.04	0.48	44.89
07PEYT01-15	1897-2 (609)	Rouleau	21.15	1.88	5.96	15.20	0.68	44.21
07PEYT01-16	1863-11(632)	Rouleau	19.89	2.32	5.65	13.56	1.01	43.70
07PEYT01-17	2032-9 (602)	Rouleau	18.73	2.17	5.71	15.25	0.81	43.36
07PEYT01-18	1872-209 (618)	Rouleau	20.34	2.16	6.19	14.22	0.60	41.22
07PEYT01-19	1819-2 (616)	Rouleau	20.62	2.13	6.33	14.32	0.65	39.36
07PEYT01-20	2034-17 (626)	Rouleau	19.73	2.04	5.54	15.66	0.47	44.04
07PEYT01-21	1904-213 (630)	Rouleau	22.20	2.11	6.11	14.38	0.70	41.21
07PEYT01-22	1816-4 (624)	Rouleau	20.94	1.37	6.90	16.49	0.93	39.26
07PEYT01-23	2098-211 (613)	Rouleau	18.52	2.08	6.20	15.53	0.88	37.76
07PEYT01-24	2098-208 (634)	Rouleau	19.36	2.07	6.44	16.27	0.71	41.18
07PEYT01-25	2113-208 (628)	Rouleau	21.73	2.19	5.91	14.43	0.95	40.52
07PEYT01-26	1932-303 (607)	Rouleau	20.22	2.15	5.71	14.09	1.06	40.40
07PEYT01-27	1992-209 (621)	Rouleau	21.47	2.20	5.88	14.36	1.00	40.39
07PEYT01-28	1919-231 (605)	Rouleau	20.79	1.60	7.22	16.16	0.57	37.70
07PEYT01-29	2066-24 (614)	Rouleau	17.76	2.45	5.43	13.84	1.25	43.22
07PEYT01-30	2025-7 (610)	Rouleau	19.61	2.23	5.28	14.77	0.94	42.20
07PEYT01-31	2034-3 (603)	Rouleau	19.33	2.13	5.68	15.39	0.77	41.60
07PEYT01-32	2065-35 (622)	Rouleau	18.81	2.29	5.59	14.50	0.76	43.43

07PEYT01-33	2034-5 (635)	Rouleau	18.10	2.16	5.47	15.22	0.77	44.23
07PEYT01-34	2074-23 (625)	Rouleau	19.85	2.40	5.50	14.54	1.02	44.83
07PEYT01-35	2070-2 (611)	Rouleau	19.00	2.31	5.24	14.59	1.16	43.57
07PEYT01-36	2075-18 (629)	Rouleau	19.48	2.38	5.65	15.07	0.68	45.69
07PEYT02-01	Cutlass (1518)	Rouleau	17.35	2.29	5.66	14.53	0.68	45.07
07PEYT02-02	Eclipse (1506)	Rouleau	19.81	2.28	5.47	14.04	0.82	43.31
07PEYT02-03	CDC Meadow (1522)	Rouleau	18.42	2.08	5.72	15.10	0.98	42.23
07PEYT02-04	2081-10 (1509)	Rouleau	19.26	2.40	5.39	14.01	0.97	43.49
07PEYT02-05	2070-6 (1511)	Rouleau	20.28	2.28	5.63	14.87	0.78	43.06
07PEYT02-06	2068-10 (1502)	Rouleau	20.62	2.32	5.44	13.92	0.81	42.85
07PEYT02-07	2070-13 (1516)	Rouleau	19.73	2.54	5.40	13.83	0.83	43.31
07PEYT02-08	2083-2 (1532)	Rouleau	19.36	2.16	5.57	14.38	0.65	42.22
07PEYT02-09	2096-11 (1505)	Rouleau	19.90	2.12	5.43	14.94	0.87	46.60
07PEYT02-10	2096-07 (1521)	Rouleau	19.41	2.35	5.24	14.43	0.80	43.95
07PEYT02-11	2096-9 (1510)	Rouleau	20.59	2.15	5.40	15.18	0.67	44.01
07PEYT02-12	2089-11 (1513)	Rouleau	20.26	2.39	5.36	13.86	0.89	43.53
07PEYT02-13	2093-22 (1526)	Rouleau	18.76	2.46	5.48	14.53	0.93	45.71
07PEYT02-14	2087-6 (1519)	Rouleau	20.48	2.42	5.41	13.57	0.78	41.64
07PEYT02-15	2094-3 (1535)	Rouleau	21.35	2.24	6.22	13.76	0.90	39.70
07PEYT02-16	2140-1 (1527)	Rouleau	19.53	2.33	5.52	14.49	0.73	42.28
07PEYT02-17	2164--13 (1533)	Rouleau	18.19	2.42	5.53	13.97	0.87	43.71
07PEYT02-18	2157-5 (1501)	Rouleau	19.64	2.13	5.42	14.95	0.96	47.20
07PEYT02-19	2175-14 (1520)	Rouleau	19.41	2.33	5.47	14.52	0.91	41.63
07PEYT02-20	2179-16 (1528)	Rouleau	17.97	2.17	5.68	15.08	0.80	44.63
07PEYT02-21	2178-11 (1503)	Rouleau	18.69	2.35	5.79	14.57	0.88	44.82
07PEYT02-22	2179-19 (1517)	Rouleau	19.00	2.15	5.90	14.52	0.78	45.78
07PEYT02-23	2186-13 (1525)	Rouleau	20.45	2.00	5.64	15.43	0.84	42.76
07PEYT02-24	2186-10 (1515)	Rouleau	20.72	2.35	5.65	14.22	0.74	43.19
07PEYT02-25	2203-13 (1508)	Rouleau	19.63	2.23	5.46	14.82	1.04	44.26
07PEYT02-26	2186-11 (1529)	Rouleau	18.20	2.24	5.67	14.74	0.81	45.41
07PEYT02-27	2203-23 (1531)	Rouleau	19.64	2.33	5.65	14.83	0.96	45.63
07PEYT02-28	2203-29 (1523)	Rouleau	19.25	2.20	5.67	14.92	0.88	45.83
07PEYT02-29	2181-3 (1514)	Rouleau	19.13	2.21	5.82	15.20	0.64	45.23
07PEYT02-30	2203-34 (1507)	Rouleau	19.84	2.07	5.50	15.31	0.86	43.48
07PEYT02-31	2203-8 (1530)	Rouleau	20.82	1.86	5.56	15.09	0.62	41.39

07PEYT02-32 2204-13 (1512)	Rouleau	19.54	2.11	5.75	14.91	0.60	43.98
07PEYT02-33 2219-13 (1536)	Rouleau	19.21	2.14	5.77	14.96	0.58	45.32
07PEYT02-34 2254-2 (1524)	Rouleau	19.53	2.22	5.43	14.71	0.49	43.79
07PEYT02-35 2259-5 (1504)	Rouleau	17.11	2.21	6.07	15.02	0.81	45.79
07PEYT02-36 2307-10 (1534)	Rouleau	19.44	2.03	6.01	15.78	0.45	46.27
07PEYT03-01 Cutlass (2421)	Rouleau	19.35	2.22	6.00	14.55	0.77	44.48
07PEYT03-02 Eclipse (2425)	Rouleau	20.25	2.30	5.58	13.91	0.79	45.97
07PEYT03-03 CDC Dundurn (2430)	Rouleau	19.67	2.22	6.52	16.94	0.76	40.98
07PEYT03-04 CDC Striker (2412)	Rouleau	22.18	2.39	5.81	13.76	0.87	42.36
07PEYT03-05 2307-17 (2423)	Rouleau	20.95	2.19	5.67	15.30	0.93	44.39
07PEYT03-06 2303-11 (2417)	Rouleau	19.41	2.36	5.37	14.35	0.93	47.20
07PEYT03-07 2274-6 (2415)	Rouleau	20.59	2.15	5.61	14.49	0.91	43.19
07PEYT03-08 2114-1 (2410)	Rouleau	19.87	2.18	6.11	14.39	0.71	43.20
07PEYT03-09 2046-4 (2419)	Rouleau	20.51	2.34	6.06	14.17	0.65	43.21
07PEYT03-10 2046-7 (2433)	Rouleau	21.32	2.27	6.24	14.02	0.70	42.40
07PEYT03-11 2042-4 (2408)	Rouleau	19.07	2.22	6.02	14.32	0.78	42.39
07PEYT03-12 2127-6 (2401)	Rouleau	19.83	2.37	5.68	13.92	0.71	43.35
07PEYT03-13 2147-3 (2422)	Rouleau	21.55	2.30	6.14	13.45	0.50	42.53
07PEYT03-14 2195-17 (2432)	Rouleau	21.60	2.11	6.38	14.34	0.73	42.19
07PEYT03-15 2123-10 (2406)	Rouleau	21.53	2.25	6.50	14.02	0.81	44.10
07PEYT03-16 2123-12 (2413)	Rouleau	19.40	2.45	5.67	13.64	0.66	44.73
07PEYT03-17 2194-8 (2409)	Rouleau	22.13	2.34	5.95	13.63	0.93	43.08
07PEYT03-18 2235-4 (2434)	Rouleau	20.94	2.23	5.65	13.84	0.86	43.83
07PEYT03-19 2198-2 (2402)	Rouleau	21.52	2.27	5.99	14.34	0.65	42.71
07PEYT03-20 2231-1 (2431)	Rouleau	21.15	2.28	5.85	13.71	0.47	43.52
07PEYT03-21 2207-2 (2428)	Rouleau	20.87	2.27	6.06	13.94	0.71	43.80
07PEYT03-22 2198-4 (2411)	Rouleau	20.97	2.25	6.04	14.07	0.71	41.88
07PEYT03-23 2198-3 (2414)	Rouleau	21.58	2.25	5.98	14.30	0.81	43.07
07PEYT03-24 2201-3 (2435)	Rouleau	21.04	2.54	5.86	13.32	1.08	41.02
07PEYT03-25 2230-27 (2429)	Rouleau	21.08	2.35	5.93	13.70	0.69	42.76
07PEYT03-26 2201-8 (2426)	Rouleau	20.61	2.38	6.28	14.21	0.65	42.26
07PEYT03-27 2237-7 (2418)	Rouleau	20.30	2.28	6.04	14.14	0.67	43.71
07PEYT03-28 2098-4 (2405)	Rouleau	20.47	2.26	6.54	16.84	1.03	39.13
07PEYT03-29 2098-6 (2403)	Rouleau	20.93	1.95	6.47	16.44	0.76	40.82
07PEYT03-30 2269-5 (2436)	Rouleau	23.94	2.15	6.44	14.17	0.58	40.59

07PEYT03-31 2294-4 (2427)	Rouleau	20.77	2.30	5.96	14.01	0.64	41.89
07PEYT03-32 2270-13 (2404)	Rouleau	20.70	2.55	6.04	13.70	0.73	42.60
07PEYT03-33 2309-13 (2420)	Rouleau	18.66	2.57	5.66	14.08	0.68	45.86
07PEYT03-34 2098-20 (2424)	Rouleau	19.87	2.34	6.70	17.15	0.80	38.91
07PEYT03-35 2110-11 (2416)	Rouleau	20.31	2.11	6.41	15.26	0.65	43.91
07PEYT03-36 2110-4 (2407)	Rouleau	18.63	2.25	6.71	16.48	0.86	40.28
07PEYT01-01 Cutlass (211)	Rosthern	20.10	0.95	7.37	16.94	0.58	51.87
07PEYT01-02 Eclipse (222)	Rosthern	22.06	0.90	7.29	16.81	0.71	50.45
07PEYT01-03 CDC Meadow (230)	Rosthern	20.23	0.88	7.28	18.21	0.72	51.36
07PEYT01-04 CDC Striker (205)	Rosthern	22.53	1.05	7.13	17.22	0.87	49.74
07PEYT01-05 CDC Rocketr (218)	Rosthern	22.65	0.52	8.06	17.16	0.20	44.33
07PEYT01-06 1329-12 (215)	Rosthern	20.46	0.98	7.17	17.48	0.87	54.14
07PEYT01-07 2105-14 (233)	Rosthern	20.32	0.73	7.54	17.60	0.86	51.71
07PEYT01-08 1897-10 (204)	Rosthern	21.34	0.66	7.36	17.74	0.60	50.65
07PEYT01-08 1897-10 (204) REPE/	Rosthern	20.18	0.87	7.38	17.66	0.59	51.85
07PEYT01-09 1782-1 (202)	Rosthern	21.91	0.65	7.39	17.67	0.58	51.24
07PEYT01-10 1857-9 (235)	Rosthern	-3.72	4.93	9.57	34.84	-7.45	28.48
07PEYT01-11 1857-7 (225)	Rosthern	21.91	0.91	7.38	16.46	0.39	52.09
07PEYT01-12 1861-16 (229)	Rosthern	20.76	0.92	7.27	17.26	0.68	52.59
07PEYT01-13 1895-4 (221)	Rosthern	20.68	0.80	7.45	17.89	0.46	53.81
07PEYT01-14 1782-3 (203)	Rosthern	20.95	0.77	7.44	17.69	0.56	53.72
07PEYT01-15 1897-2 (234)	Rosthern	22.63	0.60	7.28	17.93	0.57	50.45
07PEYT01-16 1863-11 (209)	Rosthern	21.82	0.34	7.30	17.44	0.38	50.74
07PEYT01-17 2032-9 (206)	Rosthern	19.09	0.75	7.45	17.92	0.57	53.95
07PEYT01-18 1872-209 (224)	Rosthern	21.03	0.68	7.78	17.92	0.88	50.41
07PEYT01-19 1819-2 (201)	Rosthern	21.53	0.17	8.39	18.15	0.50	45.89
07PEYT01-20 2034-17 (226)	Rosthern	20.96	0.70	7.26	18.00	0.87	52.40
07PEYT01-21 1904-213 (236)	Rosthern	22.21	0.73	7.54	17.21	0.90	49.89
07PEYT01-22 1816-4 (207)	Rosthern	21.45	0.21	8.37	18.41	0.62	45.82
07PEYT01-23 2098-211 (210)	Rosthern	21.78	0.50	7.81	18.57	0.68	45.95
07PEYT01-24 2098-208 (213)	Rosthern	19.98	0.66	7.87	18.71	0.92	47.06
07PEYT01-25 2113-208 (217)	Rosthern	20.71	0.62	7.58	17.65	0.90	50.75
07PEYT01-26 1932-303 (232)	Rosthern	20.00	1.00	7.30	17.89	1.16	50.24
07PEYT01-27 1992-209 (212)	Rosthern	21.13	0.80	7.46	17.84	0.86	50.93
07PEYT01-28 1919-231 (228)	Rosthern	19.33	0.36	8.51	18.13	0.46	45.74

07PEYT01-29 2066-24 (220)	Rosthern	21.19	0.82	7.37	17.62	0.77	53.88
07PEYT01-30 2025-7 (216)	Rosthern	21.81	0.72	7.43	17.92	0.70	51.73
07PEYT01-31 2034-3 (223)	Rosthern	21.33	0.63	7.53	18.79	0.85	54.59
07PEYT01-32 2065-35 (227)	Rosthern	21.54	0.69	7.33	18.34	1.05	51.90
07PEYT01-33 2034-5 (214)	Rosthern	22.05	0.83	7.50	18.34	1.01	51.99
07PEYT01-34 2074-23 (219)	Rosthern	19.33	0.71	7.46	17.60	0.85	52.71
07PEYT01-35 2070-2 (208)	Rosthern	21.43	0.80	7.22	18.10	0.72	51.45
07PEYT01-36 2075-18 (231)	Rosthern	19.56	0.87	7.53	18.18	0.87	53.80
07PEYT02-01 Cutlass (1116)	Rosthern	19.62	0.91	7.34	17.37	0.56	51.30
07PEYT02-02 Eclipse (1118)	Rosthern	20.29	1.04	6.95	16.30	0.84	51.90
07PEYT02-03 CDC Meadow (1103)	Rosthern	19.48	0.80	7.30	17.66	1.20	52.90
07PEYT02-04 2081-10 (1120)	Rosthern	20.72	1.08	7.19	17.40	0.90	51.76
07PEYT02-05 2070-6 (1101)	Rosthern	21.15	0.96	7.14	17.60	0.79	53.91
07PEYT02-06 2068-10 (1135)	Rosthern	20.30	0.68	7.29	17.17	0.80	52.90
07PEYT02-07 2070-13 (1123)	Rosthern	21.30	0.82	7.43	17.65	0.96	51.81
07PEYT02-08 2083-2 (1121)	Rosthern	19.70	0.83	7.16	17.26	0.70	54.04
07PEYT02-09 2096-11 (1127)	Rosthern	21.61	0.80	7.40	17.54	0.60	52.69
07PEYT02-10 2096-7 (1134)	Rosthern	20.96	0.87	7.14	17.08	0.71	53.54
07PEYT02-11 2096-9 (1111)	Rosthern	21.16	0.74	7.39	17.43	0.47	51.64
07PEYT02-12 2089-11 (1117)	Rosthern	21.50	1.07	7.12	17.24	0.75	53.60
07PEYT02-13 2093-22 (1131)	Rosthern	19.87	0.88	7.19	16.93	0.88	53.13
07PEYT02-14 2087-6 (1106)	Rosthern	20.48	0.76	6.83	16.91	0.97	51.62
07PEYT02-15 2094-3 (1115)	Rosthern	20.37	0.82	7.25	17.50	1.11	52.74
07PEYT02-16 2140-1 (1124)	Rosthern	21.70	0.95	7.42	17.14	0.72	52.86
07PEYT02-17 2164-13 (1133)	Rosthern	20.18	0.83	7.61	17.74	1.04	53.86
07PEYT02-18 2157-5 (1105)	Rosthern	19.92	0.94	7.39	18.35	0.97	53.14
07PEYT02-19 2175-14 (1126)	Rosthern	21.52	0.57	7.14	17.55	0.97	52.75
07PEYT02-20 2179-16 (1108)	Rosthern	21.34	0.82	7.53	17.72	0.75	50.64
07PEYT02-21 2178-11 (1129)	Rosthern	19.43	0.70	7.34	18.09	0.96	53.54
07PEYT02-22 2179-19 (1112)	Rosthern	19.53	0.94	7.39	18.07	1.00	54.10
07PEYT02-23 2186-13 (1102)	Rosthern	20.64	0.68	7.32	17.83	0.74	54.00
07PEYT02-24 2186-10 (1104)	Rosthern	23.02	0.77	7.26	17.17	0.60	52.51
07PEYT02-25 2203-130 (1125)	Rosthern	20.10	0.80	6.83	17.73	1.13	54.59
07PEYT02-26 2186-11 (1109)	Rosthern	20.70	0.73	7.12	17.63	0.68	51.41
07PEYT02-27 2203-23 (1132)	Rosthern	20.11	0.73	7.37	18.18	0.79	52.23

07PEYT02-28	2203-29 (1107)	Rosthern	18.84	0.68	7.19	17.92	1.11	52.20
07PEYT02-29	2181-3 (1113)	Rosthern	21.01	0.88	7.22	17.82	0.83	51.47
07PEYT02-30	2203-34 (1122)	Rosthern	21.02	0.85	7.22	18.12	0.89	52.46
07PEYT02-31	2203-8 (1110)	Rosthern	18.93	0.84	7.07	17.76	0.80	53.30
07PEYT02-32	2204-13 (1119)	Rosthern	21.22	0.82	7.13	18.17	0.84	51.75
07PEYT02-33	2219-13 (1136)	Rosthern	20.53	1.02	7.16	17.54	0.67	52.29
07PEYT02-34	2254-2 (1114)	Rosthern	21.15	0.89	7.05	17.31	0.68	52.36
07PEYT02-35	2259-5 (1130)	Rosthern	21.46	0.90	7.46	17.44	0.83	51.42
07PEYT02-36	2307-10 (1128)	Rosthern	20.44	0.80	7.39	17.91	0.60	52.20
07PEYT03-01	Cutlass (2030)	Rosthern	20.04	1.15	7.22	16.36	0.58	50.67
07PEYT03-02	Eclipse (2012)	Rosthern	20.44	1.15	6.94	16.46	0.89	49.82
07PEYT03-03	CDC Dundurn (2004)	Rosthern	21.44	1.07	7.65	18.34	0.71	45.92
07PEYT03-04	CDC Striker (2036)	Rosthern	22.08	1.29	7.02	16.51	0.86	48.33
07PEYT03-05	2307-17 (2018)	Rosthern	19.89	0.87	7.24	18.02	0.65	53.58
07PEYT03-06	2303-11 (2022)	Rosthern	20.49	0.79	6.93	17.79	0.75	53.01
07PEYT03-07	2274-6 (2033)	Rosthern	20.64	1.01	6.95	17.98	0.93	51.24
07PEYT03-08	2114-1 (2007)	Rosthern	21.54	1.00	7.40	17.50	1.09	48.46
07PEYT03-09	2046-4 (2015)	Rosthern	22.25	0.98	7.30	16.74	0.76	49.57
07PEYT03-10	2046-7 (2010)	Rosthern	21.84	1.00	7.12	16.95	0.63	49.72
07PEYT03-11	2042-4 (2026)	Rosthern	20.55	0.88	7.42	17.28	0.77	49.51
07PEYT03-12	2127-6 (2020)	Rosthern	21.52	1.05	7.34	17.07	0.93	49.28
07PEYT03-13	2147-3 (2001)	Rosthern	20.38	1.07	7.46	17.27	0.94	50.13
07PEYT03-14	2195-17 (2003)	Rosthern	21.59	0.86	7.11	17.98	0.86	50.52
07PEYT03-15	2123-10 (2031)	Rosthern	21.84	1.21	7.01	16.71	0.81	48.36
07PEYT03-16	2123-12 (2021)	Rosthern	20.51	0.91	7.12	16.49	0.87	50.57
07PEYT03-17	2194-8 (2006)	Rosthern	21.35	1.01	7.01	16.39	0.97	48.36
07PEYT03-18	2235-4 (2017)	Rosthern	21.04	1.19	7.00	16.43	1.06	49.23
07PEYT03-19	2198-2 (2002)	Rosthern	21.19	0.97	7.35	17.17	0.69	49.03
07PEYT03-20	2231-1 (2005)	Rosthern	20.68	1.02	7.08	16.34	0.98	49.18
07PEYT03-21	2207-2 (2024)	Rosthern	21.98	0.97	6.95	17.32	0.78	48.45
07PEYT03-22	2198-4 (2032)	Rosthern	21.55	1.11	7.02	16.53	0.90	47.70
07PEYT03-23	2198-3(2035)	Rosthern	21.43	0.80	7.52	17.55	1.00	48.45
07PEYT03-24	2201-3 (2009)	Rosthern	20.12	1.03	7.16	17.16	0.99	50.72
07PEYT03-25	2230-27 (2014)	Rosthern	21.51	0.96	6.88	16.62	1.09	49.62
07PEYT03-26	2201-8 (2028)	Rosthern	21.49	1.08	7.57	16.20	1.04	49.39

07PEYT03-27	2237-7 (2016)	Rosthern	20.65	0.94	7.30	17.20	0.83	49.84
07PEYT03-28	2098-4 (2034)	Rosthern	20.14	1.00	7.90	19.01	1.03	46.48
07PEYT03-29	2098-6 (2029)	Rosthern	20.83	0.83	7.50	18.22	0.70	46.16
07PEYT03-30	2069-5 (2025)	Rosthern	22.09	0.92	7.35	17.62	0.60	51.55
07PEYT03-31	2294-4 (2023)	Rosthern	20.63	0.90	7.46	17.27	0.95	50.19
07PEYT03-32	2270-13 (2019)	Rosthern	19.87	1.24	7.55	17.60	1.06	52.01
07PEYT03-33	2309-13 (2011)	Rosthern	20.32	0.81	7.48	17.24	0.81	53.33
07PEYT03-34	2098-20 (2027)	Rosthern	19.66	0.76	7.86	19.55	0.95	48.55
07PEYT03-35	2110-11 (2008)	Rosthern	19.74	0.91	7.51	18.09	0.81	48.65
07PEYT03-36	2110-4 (2013)	Rosthern	19.15	1.04	7.97	18.69	1.10	48.78

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07PRVT-01	Cutlass (3804)	Elrose	19.67	1.68	6.23	15.33	0.67	47.07
07PRVT-02	Eclipse (3813)	Elrose	22.05	1.83	5.85	15.37	1.12	45.96
07PRVT-03	CDC Striker (3821)	Elrose	23.26	1.72	6.59	14.79	0.98	45.55
07PRVT-04	Cooper (3801)	Elrose	23.36	1.47	6.84	15.67	0.62	43.61
07PRVT-05	CDC Meadow (3806)	Elrose	21.05	1.48	6.30	16.06	0.62	45.66
07PRVT-06	CDC Dundurn (3815)	Elrose	21.66	1.75	7.22	17.45	0.77	42.28
07PRVT-07	CDC Centennial (3809)	Elrose	20.86	1.43	6.68	15.73	0.75	47.15
07PRVT-08	SW Marquee (3826)	Elrose	22.15	1.86	6.38	15.17	0.76	49.89
07PRVT-09	SW Sergeant (3805)	Elrose	21.93	1.73	7.06	15.25	1.05	44.93
07PRVT-10	Bluebird (3819)	Elrose	20.48	1.80	6.46	15.46	0.82	42.57
07PRVT-11	SW Cartier (3823)	Elrose	20.68	1.74	6.12	16.03	0.87	45.11
07PRVT-12	SW Benefit (3818)	Elrose	20.09	1.71	6.04	15.84	0.61	46.50
07PRVT-13	Reward (3820)	Elrose	19.52	1.78	5.85	15.33	0.66	47.46
07PRVT-14	Canstar (3807)	Elrose	20.69	1.73	6.03	15.51	0.96	43.26
07PRVT-15	CDC Rocket (3825)	Elrose	20.80	1.28	7.38	16.75	0.73	40.88
07PRVT-16	CDCTucker (3814)	Elrose	22.84	1.55	6.15	16.07	0.74	44.36
07PRVT-17	Tamora (3827)	Elrose	22.33	1.61	6.79	15.33	0.56	41.85
07PRVT-18	Polstead (3812)	Elrose	21.17	1.61	6.31	15.60	0.77	45.63
07PRVT-19	Fusion (3802)	Elrose	20.68	1.69	6.01	15.00	0.93	46.45
07PRVT-20	Agassiz (3824)	Elrose	20.74	1.71	6.06	15.27	0.91	44.47
07PRVT-21	Thunderbird (3822)	Elrose	20.63	1.61	6.16	15.77	0.60	50.16
07PRVT-22	Noble (3803)	Elrose	20.89	1.53	6.04	15.04	0.93	44.79
07PRVT-23	CDC 1287-2 (3817)	Elrose	21.38	1.51	6.31	16.73	0.55	46.96
07PRVT-24	CDC 1400-8 (3811)	Elrose	19.41	1.65	6.53	16.26	0.89	47.65
07PRVT-25	CDC 1410-15 (3816)	Elrose	19.36	1.68	6.45	15.45	0.74	47.09
07PRVT-26	CDC 1434-20 (3808)	Elrose	23.59	1.49	7.20	16.06	0.52	42.29
07PRVT-27	APCM 97107(3810)	Elrose	21.80	1.57	6.14	15.73	0.88	45.00
07PRVT-01	Cutlass (4117)	Meath Park	19.03	1.90	6.06	14.78	0.78	45.78
07PRVT-02	Eclipse (4111)	Meath Park	19.58	1.87	6.20	14.78	0.72	43.71
07PRVT-03	CDC Striker (4119)	Meath Park	21.81	1.90	6.14	15.08	1.02	43.02
07PRVT-04	Cooper (4114)	Meath Park	20.03	1.81	5.96	14.38	0.67	42.26
07PRVT-05	CDC Medadow (4122)	Meath Park	17.70	1.83	6.17	15.50	0.81	45.94
07PRVT-06	CDC Dundurn (4102)	Meath Park	18.95	1.73	6.78	16.91	0.68	43.21
07PRVT-07	CDC Centennial (4137)	Meath Park	18.00	1.62	6.22	14.93	0.83	47.15

07PRVT-08	SW Marquee (4110)	Meath Park	21.04	1.73	5.87	15.22	1.09	44.03
07PRVT-09	SW Sergeant (4124)	Meath Park	20.42	1.87	6.19	14.57	0.87	43.03
07PRVT-10	Bluebird (4104)	Meath Park	17.82	1.94	6.26	15.08	0.79	42.79
07PRVT-11	SW Cartier (4109)	Meath Park	18.95	2.13	6.08	14.31	0.73	44.24
07PRVT-12	SW Benefit (4115)	Meath Park	18.31	2.10	5.64	15.77	0.94	44.29
07PRVT-13	Reward (4120)	Meath Park	16.41	2.04	5.84	15.33	0.76	48.56
07PRVT-14	Canstar (4106)	Meath Park	16.95	1.87	5.61	14.86	0.78	47.35
07PRVT-15	CDC Rocket (4113)	Meath Park	19.46	1.57	7.12	15.65	0.55	40.29
07PRVT-16	CDC Tucker (4121)	Meath Park	20.48	1.81	5.94	14.89	0.64	43.63
07PRVT-17	Tamora (4118)	Meath Park	19.33	1.86	5.91	14.91	0.78	42.17
07PRVT-18	Polstead (4108)	Meath Park	18.65	1.88	5.93	15.45	1.01	46.75
07PRVT-19	Fusion (4123)	Meath Park	18.73	1.80	5.96	14.78	0.81	43.45
07PRVT-20	Agassiz (4112)	Meath Park	18.67	1.81	5.96	14.75	0.64	47.33
07PRVT-21	Thunderbird (4105)	Meath Park	18.64	1.82	5.75	15.50	0.79	47.24
07PRVT-22	Noble (4116)	Meath Park	19.08	1.78	5.83	15.00	0.85	46.78
07PRVT-23	CDC 1287-2 (4126)	Meath Park	18.80	1.67	6.06	15.97	0.91	47.13
07PRVT-24	CDC 1400-8 (4101)	Meath Park	17.93	1.61	6.25	15.28	1.22	46.22
07PRVT-25	CDC 1410-15 (4103)	Meath Park	18.16	1.60	6.35	15.94	0.60	47.77
07PRVT-26	CDC 1434-20 (4127)	Meath Park	18.99	1.78	6.27	16.01	1.00	45.85
07PRVT-27	APCM 97107 (4125)	Meath Park	20.11	1.92	5.55	14.93	0.95	45.19
07PRVT-01	Cutlass (4407)	Swift Current	17.45	1.88	5.99	15.79	0.75	45.11
07PRVT-02	Eclipse (4425)	Swift Current	18.53	1.99	5.91	14.69	0.85	43.30
07PRVT-03	CDC Striker (4423)	Swift Current	20.57	1.98	6.13	14.45	0.97	44.13
07PRVT-04	Cooper (4427)	Swift Current	20.67	1.63	6.30	15.34	1.03	39.58
07PRVT-05	CDC Meadowr (4419)	Swift Current	17.43	1.79	6.03	16.05	1.10	47.44
07PRVT-06	CDC Dundurn (4409)	Swift Current	19.45	2.18	6.52	16.55	0.97	42.46
07PRVT-07	CDC Centannial (4404)	Swift Current	19.45	1.94	6.41	15.05	0.76	45.49
07PRVT-08	SW Marquee (4413)	Swift Current	20.22	2.04	6.16	14.87	0.64	44.64
07PRVT-09	SW Sergeant (4415)	Swift Current	20.59	1.73	6.18	15.47	1.04	40.36
07PRVT-10	Bluebird (4420)	Swift Current	17.98	2.12	6.14	15.38	1.08	43.36
07PRVT-11	SW Cartier (4411)	Swift Current	19.43	1.94	5.76	15.63	1.03	44.28
07PRVT-12	SW Benefit (4417)	Swift Current	17.22	2.13	5.83	16.19	0.65	47.81
07PRVT-13	Reward (4421)	Swift Current	18.66	2.03	5.97	15.80	0.61	44.62
07PRVT-14	Canstar (4424)	Swift Current	19.30	2.01	5.89	14.34	0.93	42.83
07PRVT-15	CDC Rocket (4401)	Swift Current	19.02	1.61	6.95	16.16	0.98	39.49

07PRVT-16	CDC Tucker (4401)	Swift Current	21.69	1.74	5.77	15.60	0.50	44.64
07PRVT-17	Tamora (4422)	Swift Current	21.74	1.78	6.57	15.23	0.81	40.56
07PRVT-18	polstead (4403)	Swift Current	19.34	1.89	6.10	15.13	0.90	43.04
07PRVT-19	Fusion (4402)	Swift Current	17.87	2.06	5.84	14.51	1.00	44.20
07PRVT-20	Agasssiz (4418)	Swift Current	19.46	2.03	5.90	14.26	0.59	42.73
07PRVT-21	Thunderbird (4414)	Swift Current	20.29	1.97	5.84	15.55	0.54	47.72
07PRVT-22	Noble (4412)	Swift Current	20.88	1.78	5.67	15.06	0.87	42.27
07PRVT-23	CDC 1287-2 (4410)	Swift Current	19.07	1.88	6.08	15.57	0.88	44.14
07PRVT-24	CDC 1400-8 (4426)	Swift Current	17.60	2.04	6.29	15.21	0.99	44.07
07PRVT-25	CDC 1410-15 (4406)	Swift Current	19.26	1.93	6.29	15.52	0.65	46.05
07PRVT-26	CDC 1434-20 (4408)	Swift Current	20.89	1.86	6.53	15.96	0.79	43.41
07PRVT-27	APCM 97107 (4416)	Swift Current	19.48	2.34	5.90	14.36	1.12	44.54
07PRVT-01	Cutlass7 (4011)	Rosthern	17.58	1.37	6.72	15.83	0.83	51.39
07PRVT-02	Eclipse (4021)	Rosthern	18.13	1.36	6.75	16.39	1.21	48.87
07PRVT-03	CDC Striker (4012)	Rosthern	22.38	1.34	7.04	16.63	0.80	46.15
07PRVT-04	cooperr (4024)	Rosthern	18.96	1.33	6.61	15.81	0.94	49.75
07PRVT-05	CDC Meadow (4006)	Rosthern	19.26	1.33	6.91	17.31	0.99	48.30
07PRVT-06	CDC Dundurn (4017)	Rosthern	20.46	1.43	7.18	17.91	1.09	46.64
07PRVT-07	CDC cenatannial (4001)	Rosthern	18.10	1.45	6.82	15.84	0.95	48.72
07PRVT-08	SW MArquee (4016)	Rosthern	20.18	1.37	6.76	16.27	1.02	48.49
07PRVT-09	SW Sergeant (4018)	Rosthern	19.35	1.43	7.10	16.74	1.25	48.27
07PRVT-10	Bluebird (4025)	Rosthern	19.06	1.62	6.63	15.63	0.97	49.64
07PRVT-11	SW Cartier (4020)	Rosthern	21.08	1.27	6.97	16.83	0.77	50.66
07PRVT-12	SW Benifit (4004)	Rosthern	17.82	1.65	6.42	16.70	0.90	51.04
07PRVT-13	Reward (4023)	Rosthern	16.97	1.40	6.48	16.74	0.77	51.37
07PRVT-14	Canstar (4026)	Rosthern	19.05	1.25	6.91	16.64	0.96	49.30
07PRVT-15	CDC Rocket (4015)	Rosthern	20.35	0.88	7.76	16.85	0.67	43.13
07PRVT-16	CDC Tucker (4019)	Rosthern	21.82	0.80	7.14	17.58	0.89	49.75
07PRVT-17	Tamora (4009)	Rosthern	19.63	1.30	6.74	15.92	1.06	48.72
07PRVT-18	Plostead (4022)	Rosthern	19.29	1.39	6.83	16.24	0.90	51.89
07PRVT-19	Fusion (4013)	Rosthern	18.01	1.22	6.87	16.45	0.96	50.32
07PRVT-20	Agassiz (4008)	Rosthern	19.65	1.48	6.51	15.74	0.86	49.49
07PRVT-21	Thunderbird(4033)	Rosthern	19.97	1.23	6.82	17.29	0.75	52.01
07PRVT-22	Noble (4007)	Rosthern	19.76	1.17	6.60	15.90	1.02	49.39
07PRVT-23	CDC 1287-2 (4003)	Rosthern	17.80	1.09	7.11	16.61	1.18	50.38

07PRVT-24	CDC1400-8 (4014)	Rosthern	17.48	1.37	7.20	16.79	1.30	50.35
07PRVT-25	CDC1410-15 (4002)	Rosthern	18.45	1.21	7.03	16.35	1.03	52.31
07PRVT-26	CDC1434-20 (4010)	Rosthern	19.62	1.02	7.20	16.77	1.17	50.66
07PRVT-27	APCM 97107 (4027)	Rosthern	21.43	1.23	6.93	16.34	0.83	51.69
07PRVT -01	Cutlass (3911)	Rouleau	18.53	1.65	6.43	15.66	0.75	50.46
07PRVT -02	Eclipse (3905)	Rouleau	20.27	1.82	6.03	14.61	1.12	45.90
07PRVT -03	CDC Striker (3903)	Rouleau	21.04	1.80	6.33	14.80	1.17	47.09
07PRVT -04	Cooper (3913)	Rouleau	20.39	1.79	6.23	14.42	0.72	46.90
07PRVT -05	CDC Meadow (3906)	Rouleau	19.33	1.60	6.36	16.79	1.04	49.27
07PRVT -06	CDC Durndurn (3921)	Rouleau	20.76	1.91	6.99	17.25	0.91	44.41
07PRVT -07	CDC Centannial (3926)	Rouleau	18.75	1.79	6.54	15.05	0.81	48.56
07PRVT -08	SW Marqueel (3926)	Rouleau	20.29	1.82	5.99	15.57	0.74	48.49
07PRVT -09	SW Sergeant (3924)	Rouleau	21.45	2.00	6.61	14.59	0.86	45.14
07PRVT -10	Bluebird (3901)	Rouleau	19.19	1.93	6.30	14.46	0.98	45.13
07PRVT -11	SW Cartier (3917)	Rouleau	19.25	1.74	6.23	15.61	0.99	48.38
07PRVT -12	SW Benefit (3915)	Rouleau	19.36	1.83	5.75	16.21	0.86	47.45
07PRVT -13	Reward (3910)	Rouleau	18.21	1.76	5.80	16.21	0.66	50.38
07PRVT -14	Canstar (3908)	Rouleau	18.31	2.05	5.88	14.35	1.05	45.94
07PRVT -15	CDC Rocket (3916)	Rouleau	20.20	1.35	6.88	16.67	0.70	41.07
07PRVT -16	CDC Tucker (3922)	Rouleau	21.91	1.65	6.08	15.91	0.73	47.93
07PRVT -17	Tamora (3912)	Rouleau	21.14	1.89	5.77	14.25	0.61	45.47
07PRVT -18	Polstead (3918)	Rouleau	20.49	1.96	6.02	14.54	0.73	45.99
07PRVT -19	Fusion (3904)	Rouleau	18.97	1.96	6.05	14.13	0.83	44.80
07PRVT -20	Agassiz (3925)	Rouleau	19.71	2.12	5.52	14.61	0.91	44.41
07PRVT -21	Thunderbird (3909)	Rouleau	19.34	1.97	5.84	15.26	0.53	48.39
07PRVT -22	Noble (3927)	Rouleau	21.22	1.73	5.87	14.72	0.80	46.33
07PRVT -23	CDC 1287-2 (3914)	Rouleau	20.27	1.79	5.97	15.49	1.08	45.31
07PRVT -24	CDC 1400-8 (3980)	Rouleau	17.96	1.92	6.13	16.10	1.28	48.16
07PRVT -25	CDC 1410-15 (3907)	Rouleau	19.02	1.85	6.41	15.26	0.84	47.05
07PRVT -26	CDC 1434-20 (3919)	Rouleau	21.85	1.83	6.67	15.23	0.64	42.99
07PRVT -27	APCM 97107 (3902)	Rouleau	21.47	2.14	5.65	14.21	0.82	46.24
07PRVT -01	Cutlass (3723)	Sutherland	20.05	1.65	6.31	15.95	0.55	47.02
07PRVT -02	Eclipse (3710)	Sutherland	21.63	1.64	6.27	15.34	0.78	44.39
07PRVT -03	CDC Striker (3714)	Sutherland	22.42	1.80	6.04	15.34	0.94	44.50

07PRVT -04	Cooperr (3722)	Sutherland	21.09	1.53	6.32	15.01	0.68	44.42
07PRVT -05	CDC Meadow (3713)	Sutherland	20.21	1.54	5.94	16.03	0.92	43.86
07PRVT -06	CDC Durndurn (3719)	Sutherland	21.96	1.52	6.81	16.91	0.83	41.79
08PRVT -07	CDC Centannial (3720)	Sutherland	20.62	1.61	6.43	16.09	0.85	44.50
07PRVT -08	SW Marquee (3705)	Sutherland	21.23	1.67	6.03	15.66	0.91	44.69
07PRVT -09	SW Sergeant (3721)	Sutherland	21.42	1.67	6.26	14.94	0.98	43.95
07PRVT -10	Bluebird (3726)	Sutherland	18.99	1.76	6.32	15.95	0.91	44.83
07PRVT -11	SW Cartier(3725)	Sutherland	20.49	1.58	5.91	15.77	0.79	43.61
07PRVT -12	SW Benefit (3701)	Sutherland	20.26	1.77	5.97	16.38	0.78	44.59
07PRVT -13	Reward (3724)	Sutherland	18.83	1.58	5.77	16.15	0.87	47.59
07PRVT -14	Canstar (3727)	Sutherland	20.11	1.92	5.70	15.27	1.16	45.52
07PRVT -15	CDC Rocket (3706)	Sutherland	20.04	1.08	7.15	16.74	0.61	41.86
07PRVT -16	CDC Tucker (3711)	Sutherland	23.60	1.38	5.92	16.14	0.88	45.13
07PRVT -17	Tamora (3717)	Sutherland	21.41	1.62	6.05	15.43	0.75	42.75
07PRVT -18	Polstead (3709)	Sutherland	21.15	1.69	6.04	15.66	0.89	46.60
07PRVT -19	Fusion (3704)	Sutherland	20.58	1.65	6.03	15.08	1.18	45.91
07PRVT -20	Agassiz (3715)	Sutherland	21.08	1.74	5.93	15.06	0.74	43.83
07PRVT -21	Thunderbird (3707)	Sutherland	19.95	1.72	5.94	15.91	0.78	49.04
07PRVT -22	Noble (3716)	Sutherland	21.96	1.39	5.70	14.96	0.98	45.65
07PRVT -23	CDC 1287-2 (3718)	Sutherland	21.20	1.41	6.20	17.29	0.81	47.14
07PRVT -24	CDC 1400-8 (3703)	Sutherland	18.83	1.67	6.34	16.33	0.97	47.06
07PRVT -25	CDC 1410-15 (3708)	Sutherland	19.17	1.56	6.23	16.11	1.00	45.47
07PRVT -26	CDC 1434-20 (3702)	Sutherland	21.82	1.49	6.86	15.88	0.81	43.10
07PRVT -27	APCM 97107 (3712)	Sutherland	22.32	1.73	5.86	15.14	0.82	45.67

Sample No.	Sample I.D.	Location	CP	Ash	ADF	NDF	EE	Starch
07PSEYT-1	Trapper (3319)	Sutherland	25.05	1.77	6.61	15.43	0.55	45.21
07PSEYT-2	40-10 (3306)	Sutherland	25.94	1.39	7.72	16.32	0.87	35.37
07PSEYT-3	CDC Sonata (3313)	Sutherland	23.88	1.71	6.37	16.02	0.64	45.35
07PSEYT-4	CDC Minute (3304)	Sutherland	22.66	1.91	6.47	15.94	0.72	47.35
07PSEYT-5	1096-8 (3318)	Sutherland	25.83	1.62	6.51	15.71	0.72	45.74
07PSEYT-6	1287-2 (3314)	Sutherland	22.94	1.78	6.93	16.18	0.97	47.05
07PSEYT-7	1400-10 (3317)	Sutherland	21.74	1.89	6.92	16.34	1.12	47.77
07PSEYT-8	1681-11 (3310)	Sutherland	23.31	1.78	6.81	16.10	1.01	45.95
07PSEYT-9	1896-5 (3320)	Sutherland	21.00	2.01	6.34	15.68	1.01	46.77
07PSEYT-10	1895-12 (3312)	Sutherland	23.46	2.08	6.16	15.07	0.91	43.44
07PSEYT-11	1920-7 (3305)	Sutherland	24.73	1.74	6.64	15.64	0.58	45.99
07PSEYT-12	1996-216 (3315)	Sutherland	22.55	2.24	7.36	15.06	0.90	43.48
07PSEYT-13	CDC1400-8 (3307)	Sutherland	21.18	2.21	6.90	16.11	0.95	47.30
07PSEYT-14	2310-16 (3316)	Sutherland	20.63	2.21	6.38	15.71	0.77	42.98
07PSEYT-15	2311-3 (3301)	Sutherland	22.88	1.93	6.28	15.43	0.70	46.14
07PSEYT-16	2092-25 (3303)	Sutherland	21.24	2.10	6.29	15.67	1.10	43.91
07PSEYT-17	2263-5 (3311)	Sutherland	24.45	1.04	7.47	16.98	0.67	40.26
07PSEYT-18	JS01202-50 (3302)	Sutherland	23.18	1.32	7.81	16.72	0.72	38.90
07PSEYT-19	JS01103-27 (3309)	Sutherland	26.50	1.71	6.50	15.61	0.79	43.42
07PSEYT-20	CDC Meadow (3308)	Sutherland	21.66	2.01	6.42	15.32	1.01	45.01
07PSEYT-1	Trapper (3417)	SPG	26.42	1.59	6.43	16.13	0.71	42.22
07PSEYT-2	40-10 (3405)	SPG	24.12	1.56	7.52	15.53	0.95	36.71
07PSEYT-3	CDC Sonata(3403)	SPG	25.51	1.45	6.64	16.18	0.75	43.85
07PSEYT-4	CDC Minuet (3408)	SPG	23.43	1.88	6.32	15.33	0.97	44.42
07PSEYT-5	1096-8 (3412)	SPG	25.78	1.41	6.37	15.82	0.74	42.44
07PSEYT-6	1287-2 (3401)	SPG	23.63	1.69	6.75	16.02	1.00	43.59
07PSEYT-7	1400-10 (3420)	SPG	23.84	1.61	6.66	16.59	1.02	44.61
07PSEYT-8	1681-11 (3418)	SPG	22.01	1.77	6.25	14.99	0.95	45.56
07PSEYT-9	1896-5 (3414)	SPG	21.62	1.85	6.33	15.68	1.09	43.47
07PSEYT-10	1895-12 (3406)	SPG	23.45	1.88	6.29	15.72	1.14	44.48
07PSEYT-11	1920-7 (3416)	SPG	23.66	1.51	6.72	15.37	0.65	45.67
07PSEYT-12	1996-216 (3404)	SPG	23.94	2.01	7.34	15.23	0.87	44.24
07PSEYT-13	CDC 1400-8 (3410)	SPG	21.78	1.75	6.95	16.60	0.98	44.84
07PSEYT-14	2310-16 (3413)	SPG	22.36	1.73	6.62	15.59	0.74	42.79

07PSEYT-15	2311-3 (3419)	SPG	23.79	1.59	6.48	15.72	0.88	44.76
07PSEYT-16	2092-25 (3415)	SPG	22.57	1.92	6.19	15.32	1.07	43.08
07PSEYT-17	2263-5 (3407)	SPG	24.28	0.95	7.50	16.67	0.33	38.95
07PSEYT-18	JS01202-50 (3411)	SPG	22.14	1.11	7.79	16.40	0.76	39.75
07PSEYT-19	JS01103-27 (3409)	SPG	26.36	1.75	6.34	15.76	1.12	44.35
07PSEYT-20	CDC Meadow (3402)	SPG	22.04	1.86	6.52	16.03	0.99	45.69